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ANALYSES OF MOBILIZATION MANPOWER SUPPLY AND DEMAND(U)

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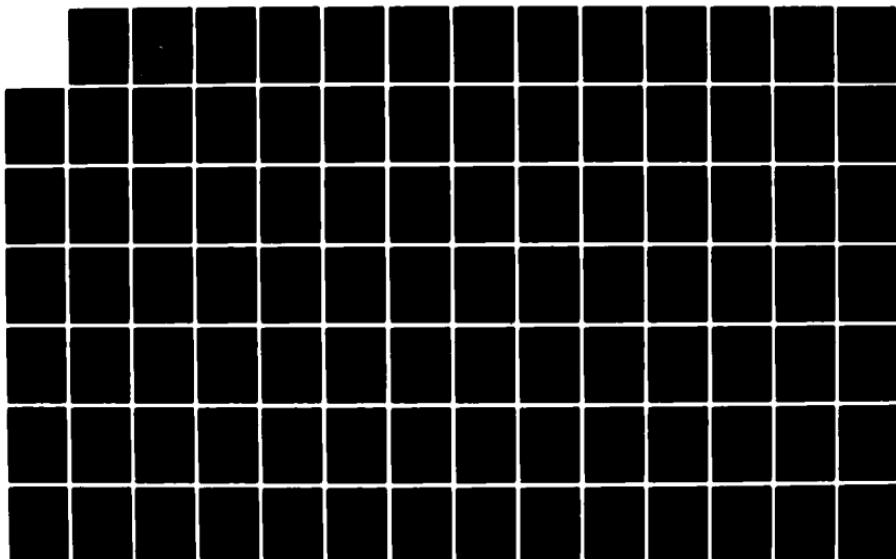
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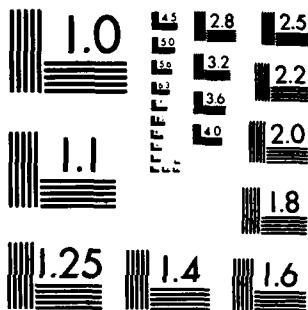
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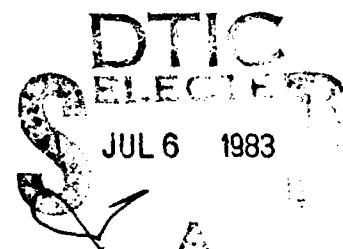
ASC R-134
March 1982

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ANALYSES OF MOBILIZATION MANPOWER SUPPLY AND DEMAND

Final Report

ADA130100



prepared for

Support Forces, Manpower and Logistics Branch (OP-964)
Systems Analysis Division
Office of the Chief of Naval Operations
Washington, D.C. 20350

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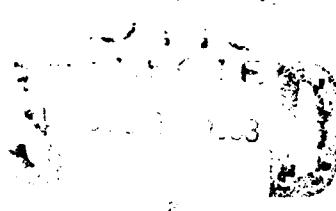
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March 1982

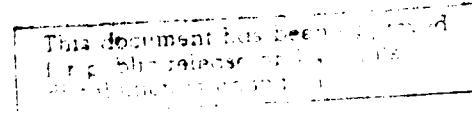
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Administrative Sciences Corporation

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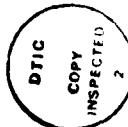
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report provides a central record of all work performed under Contract No. N00014-80-C-0939. That effort was concerned with the updating and exercising of the automated macro-level mobilization manpower model, developed under Contract No. N00014-79-C-0527. Reporting was accomplished in two series of documents. Letter Reports, essentially progress reports, are summarized to provide a history of the technical work performed. Technical Memoranda, containing the technical data submitted, are listed by date and subject, with extracts to indicate the kind of data generated.		

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I. INTRODUCTION

This is the final report of Contract No. N00014-80-C-0939 between Administrative Sciences Corporation (ASC) and the Office of Naval Research. Scientific direction was provided by the Head of the Manpower, Training and Reserve Section of the Systems Analysis Division (OP-964D) of the Office of the Chief of Naval Operations.

Over the course of nineteen months, the initial contract was modified three times. Thus, one objective of this report is to simply provide a record of the contract's overall scope of work. Other objectives are to summarize its technical accomplishments, to cite the back-up memoranda in which the technical data were transmitted to OP-964D, and to reproduce selected portions of that data.

I.1 Chronology of the Contract

The effort was initiated on 1 September 1980, and ASC was tasked to update and refine the automated macro-level mobilization manpower model developed under Contract No. N00014-79-C-0527 for use in identifying and quantifying issues in the CPAM process, and to employ the model for selected quantitative and qualitative analyses of wartime manpower supply and demand.

Modification P00001, effective 1 January 1981, mainly continued the effort described in the original contract.

Effective 1 May 1981, Modification P00002 called for programming a set of algorithms for computing wartime hospital staff requirements (physicians, nurses and corpsmen) to operate on a Commander FX Microcomputer, to be used by

the Bureau of Medicine and Surgery to develop inputs for Navy-wide planning, programming and budgeting.*

Finally, Modification P00003, effective 1 October 1981, tasked ASC to continue to analyze wartime manpower demand and supply which are dependent on scenario specifics, programmed forces, policy guidance and related assumptions.

I.2 Organization of the Report

There were two series of documents prepared by ASC in the course of the contractual effort. The first series is comprised of aperiodic Letter Reports which described technical accomplishments over the period covered by each report. Section II summarizes those reports. The second series consists of the manpower supply and demand data submitted to OP-964D in the form of Technical Memoranda. Section III lists these Memoranda by date and subject and displays selected portions of the data.

*This task was separately documented in "Programs to Estimate Wartime Hospital Staff Requirements for Operation on the FX Commander Minicomputer," Berterman, J.E. and Smith, B.M.

II. SUMMARY OF LETTER REPORTS

The effort was initiated 1 September 1980 to update forces and their attendant structure manpower demand to reflect post-POM changes in the Ships and Aircraft Supplemental Data Tables. A new Marine Corps scenario for a NATO war required further updating. Historical casualty rates of afloat forces were studied for comparison with casualty rates used in the mobilization manpower model. Refinements to the procedures for handling transient demand were also initiated.

All four of these efforts continued through October 1980, while an examination of historical and projected Mobilization Day requirements was initiated.

By 31 December 1980, updating of the automated mobilization manpower model was complete, and the model was exercised to examine a base case and six variants thereto. The historical study of mobilization manpower requirements was reported on, and mobilization requirements by skill area were being considered for investigation.

In January 1981, the CPAM'83 wartime manpower supply and demand analysis was reported on, followed by briefings. Investigation of the wartime manpower and personnel skill situation commenced, concentrating on gathering data for an analysis of the Hospitalman skill. This was completed in February 1981 and reported to OP-964, followed by an analysis of wartime supply and demand for Operational Specialist skills. In conjunction with OP-01 and SECNAV personnel, a quick response analysis of casualty factors for use in the Joint Operations

Plans System (JOPS) was conducted. As a result of this analysis, OP-01 issued guidance to the CINC's and to the Joint Deployment Agency (JDA), with tentative factors for planning casualty replacement requirements. This was reported to OP-964 in a Technical Memorandum of 15 February 1981.

During the next six months, ASC converted algorithms for estimating hospital staff requirements into a FORTRAN computer program for operation on BUMED's Commander FX Microcomputer, and delivered the program in the form of diskettes, accompanied by instructions for loading, execution and maintenance. A Technical Memorandum on manpower implications of an extended war was completed.

By the middle of December 1981, the project to provide data on wartime manpower for use in the manpower, personnel and training CPAM for POM FY1984-1988 was completed. Three Technical Memoranda were provided OP-964.

(1) Wartime Manpower for the CPAM Base Case, dated 1 December 1981, containing data for:

Manpower for a NATO war in FY1984
Major manpower changes compared to CPAM FY1983 data
Inactive military personnel estimates
Manpower for a NATO war in FY1985

(2) Wartime Manpower for the CPAM, dated 9 December 1981, containing data for:

Manpower for a NATO war in FY1988 ("Demand" scenario)
Manpower for a NATO war in FY1988 ("Requirement" scenario)
Inactive military personnel supply estimates for FY1988
Major manpower changes in the two "Demand" scenarios
Internal scenario differences between "Demand" and "Requirements" scenarios
Medical capabilities in the theaters of operations for each of the scenarios

(3) Corrections to the Wartime Manpower for FY87-FY88, dated 14 December 1981, containing revised data for substitution in the 9 December 1981 Memorandum.

The analysis of the transition phase manpower, proceeding from a peacetime posture through the first 30 days of mobilization, was completed and a Technical Memorandum was submitted on 16 February 1982.

III. EXTRACTS FROM TECHNICAL MEMORANDA

III.1 November 26, 1980

SUBJECT: CPAM'83 Wartime Manpower

Enclosures: (1) Supply and Demand: Base Case
(2) Major Assumptions
(3) Results of Sinkings
(4) Administrative Billet Reductions

Extracts: Enclosures (1) and (2) are reproduced in the following
three pages.

11/24/80 9882GRC

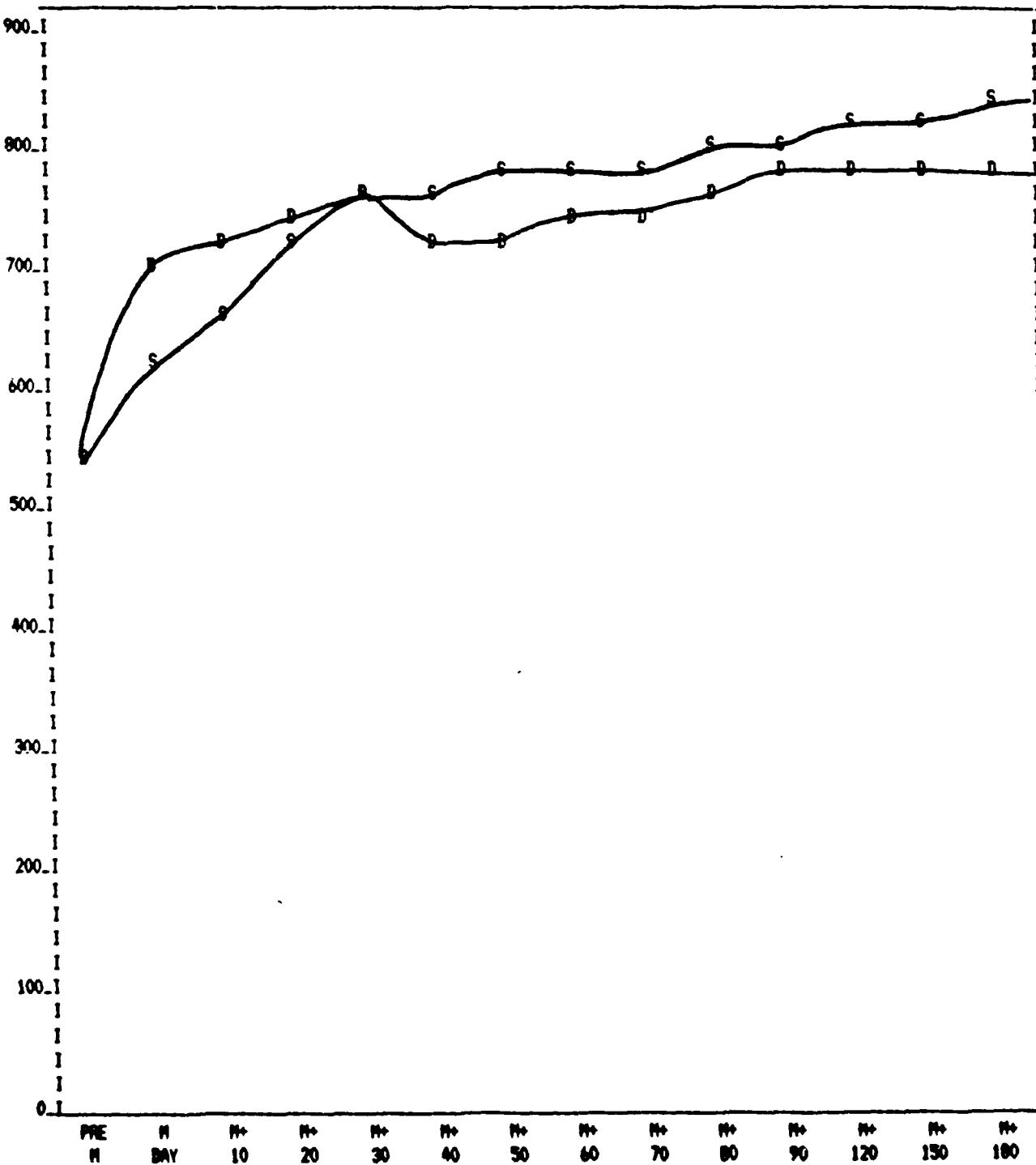
OFFICERS/ENLISTED

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

CPAM '83: Total Supply & Demand - First Day Base Case '83



Enclosure (2)

CPAM'83: First Day Base Case Assumptions

- Marine Corps deployments/employments as in WARMAPS "Budget '82" update of 14 November 1980.
- Ship sinkings and ship major battle damages calculated from Seamix I study as amplified in the Navy/MARAD Study of U.S. Mobilization Base for Shipbuilding of March 1977. The shipboard billets of ships which are sunk are subtracted from the billet demands. The shipboard billets for ships undergoing repair for major battle damage are reduced by half for fifty days following the damage. The results are reflected by either a negative demand or a lessened demand in a given time period as compared to a situation with no ship casualties. The billet reductions which are used in the POM'83 Base Case are shown in enclosure (3).
- The billets which are reduced due to ship sinkings and major battle damage are reduced also from the personnel replacement requirements.
- The personnel replacement requirements are determined by the need to replace from out of theater those personnel who are killed, captured or missing or personnel who are hospitalized and whose billet requires filling.
- Personnel returning to duty from theater medical facilities are in turn used as replacements and therefore reduce the requirement for (outside) "replacements."
- Personnel who are unhospitalized ship sinking survivors are instantly reassigned in the theater.

Enclosure (2) cont'd.)

- All necessary medical facilities and medical personnel are available.
- There are a total of almost eleven thousand billets which exist prior to M-Day and which are phased out in the first three months after M-Day.

Enclosure (4) has a summary of the location and times of the billet reductions.

- The overall scenario is based on the current Consolidated Guidance and conforms to the POM'82/Budget'82 WARMAPS scenario as updated from the October 1980 FYDP.

- On the personnel (supply) side of the data, the following are reflected:

Selected Reserve is all aboard on M-Day (85,300)

IRR, Fleet Reserve and Retired personnel are aboard before M+40 days at the following rate:

M to M+10 Days	39,000
M+10 to M+20 Days	60,000
M+20 to M+30 Days	23,100
M+30 to M+40 Days	<u>11,200</u>
	133,300

- The Selective Service system delivers between 3,000 and 4,000 draftees to boot camp every week beginning one week after M-Day.

III.2 December 19, 1980

SUBJECT: CPAM'83 Wartime Manpower Supply and Demand

Enclosures: (1) Base Case

- (2) Base Case modified by reduced RTD's, training and reserve response times
- (3) Base Case modified by increased active duty personnel and by enhanced IRR response

Extract: Enclosure (1) is reproduced in the following six pages.

12/18/80 59826RC OFFICIAL WORLD-WIDE GRC BASE

DEMAND	550100	719925	726344	739594	767216	732107	734180	744369	750792	769246	784645	784572	789082	785701
TRAINED	508400	677325	683344	697794	725916	693907	694880	704669	710592	727946	744845	744372	748582	746201
STRUCTURE	452700	596900	600900	617400	621900	618100	611600	607500	606200	618000	616900	617400	621900	621900
THEATER	123000	143400	228100	292700	306700	321400	375800	384500	387700	391500	397300	408300	410600	410600
NON-NET	329700	453500	372800	334400	333100	321100	269500	262100	260700	269600	262700	252200	254400	254400
MEDICAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIL LOS	0	0	0	-9700	-17900	-24400	-33700	-39100	-42200	-43100	-43100	-43100	-43100	-43100
NON-STRUC	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	50400	52200	52200
CAS-REPLS	0	4725	7644	8394	25516	35307	43980	55269	63992	69646	75345	76572	74482	72101
KIA	0	0	3	10	3916	6623	8729	12399	14236	16422	18808	19093	19179	19265
WIA	0	0	13	47	11691	17683	22355	29057	36141	40312	44157	45915	46546	47411
DNBI	0	6299	14349	22956	32188	41309	49901	58217	66542	74731	82848	91018	99220	107457
RTDS	0	-1574	-6721	-14618	-22279	-30307	-37005	-44405	-52928	-61818	-70466	-79455	-90463	-102032
TRAINNEES	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	40200	39500	39500

12/18/80 SS82GRC OFFICIAL WORLD-WIDE GRC BASE

M+130 M+140 M+150 M+160 M+170 M+180 M+190 M+200 M+210 M+220 M+230 M+240 M+250

12/18/80 SSB2GRC OFF/ENL WORLD-WIDE SUPPLY

	M-1	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+100	M+110	M+120
SUPPLY	542400	627700	673400	736500	765500	779800	787800	791400	795000	802300	805900	813200	818000	823000
TR POP	499800	585100	630400	694700	724200	741600	748500	751700	754800	761000	766100	773000	778500	783500
ACT F	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SEL R	0	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTH I	0	0	39000	99000	122100	133300	133300	133300	133300	133300	133300	133300	133300	133300
T OUT	0	0	6300	10600	17000	23200	30100	33300	36400	42600	47700	54600	60100	65100
TRAINEE	42600	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	40200	39500	39500

12/18/80 SSB2GRC OFF/ENL WORLD-WIDE SUPPLY

	M+130	M+140	M+150	M+160	M+170	M+180	M+190	M+200	M+210	M+220	M+230	M+240	M+250
SUPPLY	828000	831800	835700	839600	843700	848700	853700	853700	853700	853700	853700	853700	853700
TR POP	788500	791900	795800	799700	804700	809700	814700	814700	814700	814700	814700	814700	814700
ACT F	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SEL R	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTH I	133300	133300	133300	133300	133300	133300	133300	133300	133300	133300	133300	133300	133300
T OUT	70100	73500	77400	81300	86300	91300	96300	96300	96300	96300	96300	96300	96300
TRAINEE	39500	39900	39900	39900	39000	39000	39000	39000	39000	39000	39000	39000	39000

1 RECORD(S) PROCESSED

(0205 124)

12/18/80 SS82GRC OFFICERS/ENLISTED

* CUMULATIVE-SUPPLY *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	542400	627700	673400	736500	765500	779800	787800	791400	795000	802300	805900	823000	835700	846700
TRAINED	499800	585100	630400	694700	724200	741600	748500	751700	754800	761000	766100	783500	795800	809700
INITIAL AF	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SELECT RES	0	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTHR INACT	0	0	39000	99000	122100	133300	133300	133300	133300	133300	133300	133300	133300	133300
TRAIN OUTP	0	0	6300	10600	17000	23200	30100	33300	36400	42600	47700	65100	77400	91300
TRAINEE	42600	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/18/80 SS82GRC OFFICERS/ENLISTED

* CUMULATIVE-DEMAND *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	550100	719925	726344	739594	767216	732107	734180	744369	750792	769246	784645	785701	783687	782705
TRAINED	508400	677325	683344	697794	725916	693907	694880	704669	710592	727946	744845	746201	743787	743705
STRUCTURE	452700	596900	600900	617400	621900	618100	611600	607500	606200	618000	616900	621900	622900	623300
NON-STRUCT	55700	75700	74900	72000	78500	40500	39300	41900	40400	40300	52600	52200	50000	50000
CAS-REPLS	0	4725	7644	8394	25516	35307	43980	53269	63992	69646	75345	72101	70887	70405
TRAINEE	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/18/80 5682GRC OFFICERS/ENLISTED

♦ CUMULATIVE-SUMMARY ♦

PRE-11 11 11+10 11+20 11+30 11+40 11+50 11+60 11+70 11+80 11+90 11+120 11+150 11+180

SUPPLY 542400 627700 673400 736500 765500 779800 787800 791400 795000 802300 805900 823000 835700 848700

TRAINED 499800 585100 630400 694700 724200 741600 748500 751700 754800 761000 766100 783500 795800 809700

42600 42600 43000 41800 41300 38200 39300 39700 40200 41300 39800 39500 39900 39000

Demand 550100 719925 726344 739594 767216 732107 734180 744369 750792 769246 784645 785701 783687 782705

TRAINED 508400 677325 683344 697794 725916 693907 694880 704669 710592 727946 744845 746201 743787 743705

TRAINEE 41700 42600 43000 41800 41300 38200 39300 39700 40200 41300 39800 39500 39900 39000

SHORT (OVER)

TOTAL -7700 -92225 -52944 -3094 -1716 47693 53620 47031 44206 33054 21255 37299 52013 65995

TRAINED -8600 -92225 -52944 -3094 -1716 47693 53620 47031 44208 33054 21255 37299 52013 65995

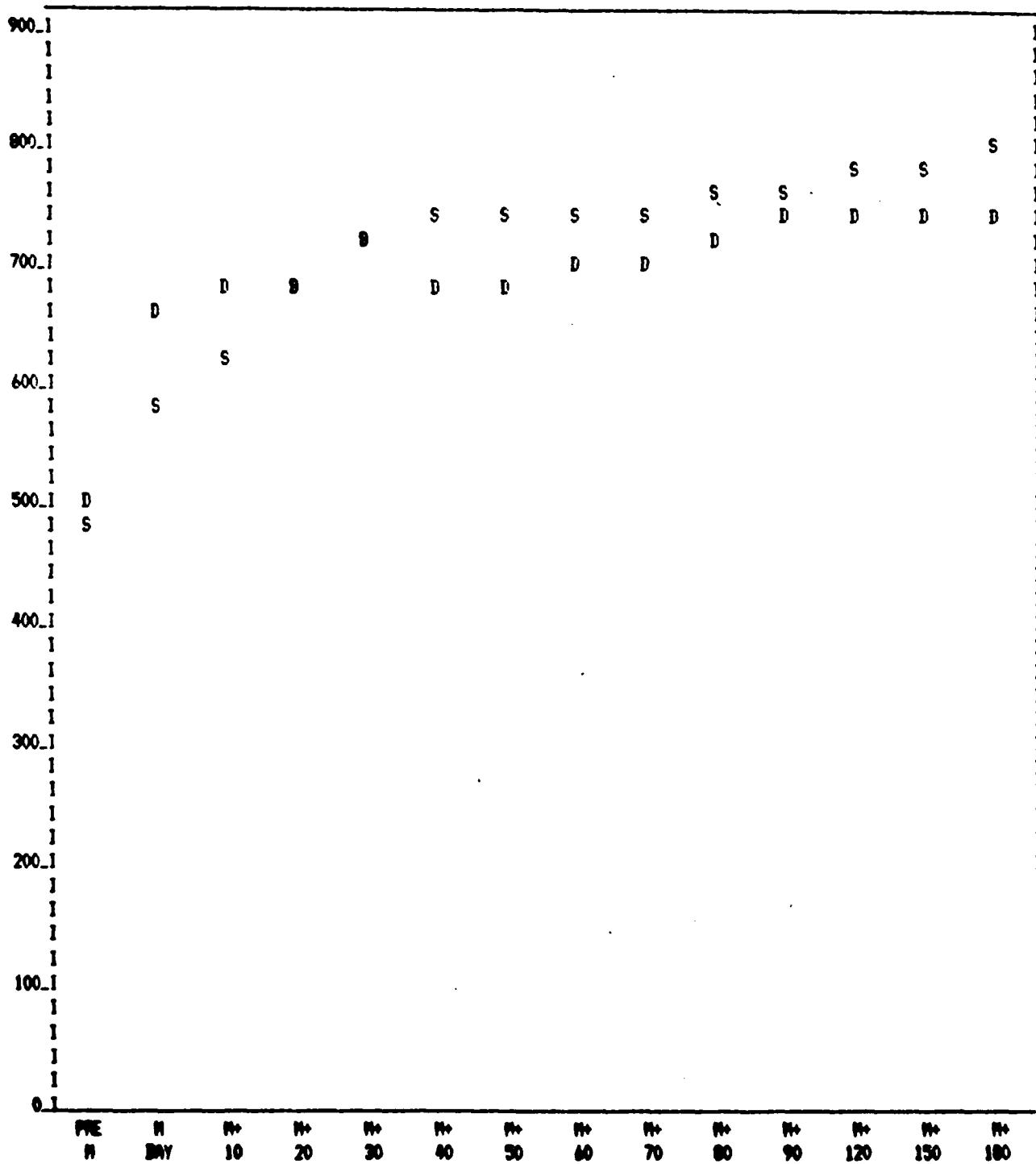
12/18/80 SSB2GRC
OFFICERS/ENLISTED

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

15

MANPOWER
(THOUS)



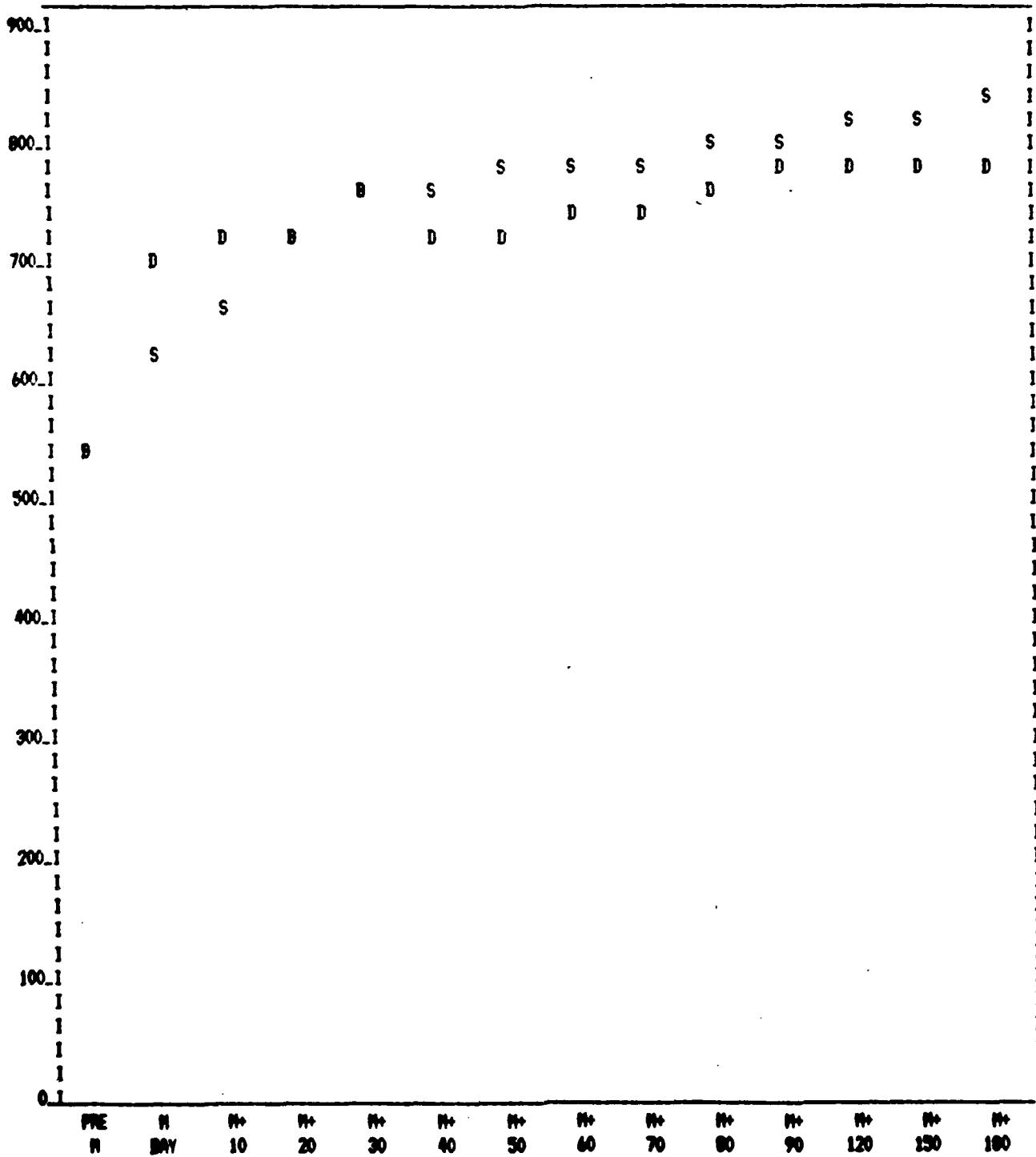
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16

OFFICERS/ENLISTED

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

III.3 December 29, 1980

SUBJECT: CPAM'83 Wartime Manpower Supply and Demand

Enclosures: (1) Afloat Casualties Seamix Excursion

(2) Sea Sanctuary Case

Extract: Enclosure (1) is reproduced in the following five pages.

12/22/80 SEAM1182 OFFICIAL TOTAL THEATER & NON-THEATER

	PRE-1	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+100	M+110	M+120
DEMAND	550100	719925	726344	751896	775910	745059	756870	766605	772558	787388	796264	793820	798360	796440
TRAINED	508400	677325	683344	710096	734610	706859	717570	726905	732358	746088	756464	753620	758860	756940
STRUCTURE	452700	596900	600900	626119	636472	636701	637205	632906	630396	640602	635828	633145	636739	635802
THEATER	123000	143400	228100	292700	306700	321400	375800	384500	387700	391500	397300	408300	410600	410600
NON-THEAT	329700	453500	372800	334920	334903	324324	273126	266785	266283	274969	266468	254114	255717	255663
MEDICAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIL LOS	0	0	0	-1501	-5131	-9025	-11721	-18377	-23587	-25867	-27940	-29269	-29578	-29851
NON-STRUC	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	50400	52200	52200
CAS-REPLS	0	4725	7644	11977	19638	29656	41065	52097	61562	65186	68036	70075	69921	68938
KIA	0	0	3	1212	3331	5466	8948	12318	16304	17459	18562	19354	19641	19832
WIA	0	0	13	2432	6347	11824	18292	25049	30790	33794	35979	37751	38739	39423
DNB1	0	6299	14349	23010	32388	41716	50543	59158	67745	76162	84475	92811	101190	109587
RTDS	0	-1574	-6721	-14676	-22429	-29847	-36739	-44429	-53277	-62228	-70979	-79852	-89648	-99904
TRAINNEES	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	40200	39500	39500

12/22/80 SEAMIX82 OFFICIAL TOTAL THEATER & NON-THEATER

12/23/80 SEAMIX82 OFFICERS/ENLISTED

* CUMULATIVE-SUPPLY *

	PRE-H	H	H+10	H+20	H+30	H+40	H+50	H+60	H+70	H+80	H+90	H+120	H+150	H+180
TOTAL	542400	627700	673400	736500	765500	779800	787800	791400	795000	802300	805900	823000	835700	848700
TRAINED	499800	585100	630400	694700	724200	741600	748500	751700	754800	761000	766100	783500	795800	809700
INITIAL AF	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SELECT RES	0	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTHR INACT	0	0	39000	99000	122100	133300	133300	133300	133300	133300	133300	133300	133300	133300
TRAIN OUTP	0	0	6300	10600	17000	23200	30100	33300	36400	42600	47700	65100	77400	91300
TRAINEE	42600	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/23/80 SEAMIX82 OFFICERS/ENLISTED

* CUMULATIVE-DEMAND *

	PRE-H	H	H+10	H+20	H+30	H+40	H+50	H+60	H+70	H+80	H+90	H+120	H+150	H+180
TOTAL	550100	719925	726344	751896	775910	745059	756870	766605	772558	787388	796264	796440	793749	792710
TRAINED	508400	677325	683344	710096	734610	706859	717570	726905	732358	746088	756464	756940	753849	753710
STRUCTURE	452700	596900	600900	626119	636472	636701	637205	632908	630396	640602	635828	635802	635609	636142
NON-STRUCT	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	52200	50000	50000
CAS-REPLS	0	4725	7644	11977	19638	29658	41065	52097	61562	65186	68036	68938	68240	67568
TRAINEE	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/23/80 **SEAMIX82** **OFFICERS/ENLISTED**

* CUMULATIVE-SUMMARY *

12/23/80 SEAMIX82

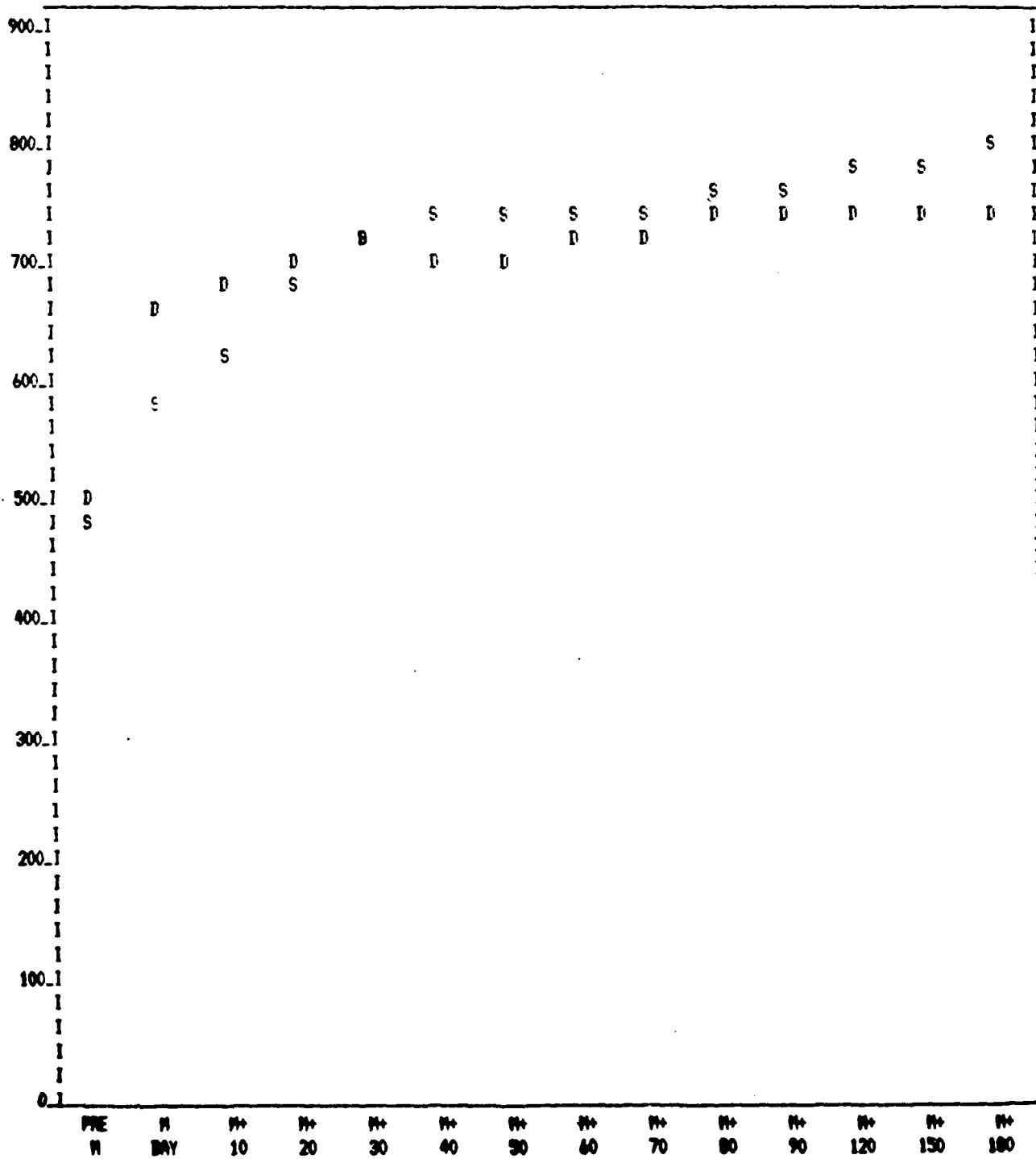
OFFICERS/ENLISTED

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

21

MANPOWER
(THOUS)



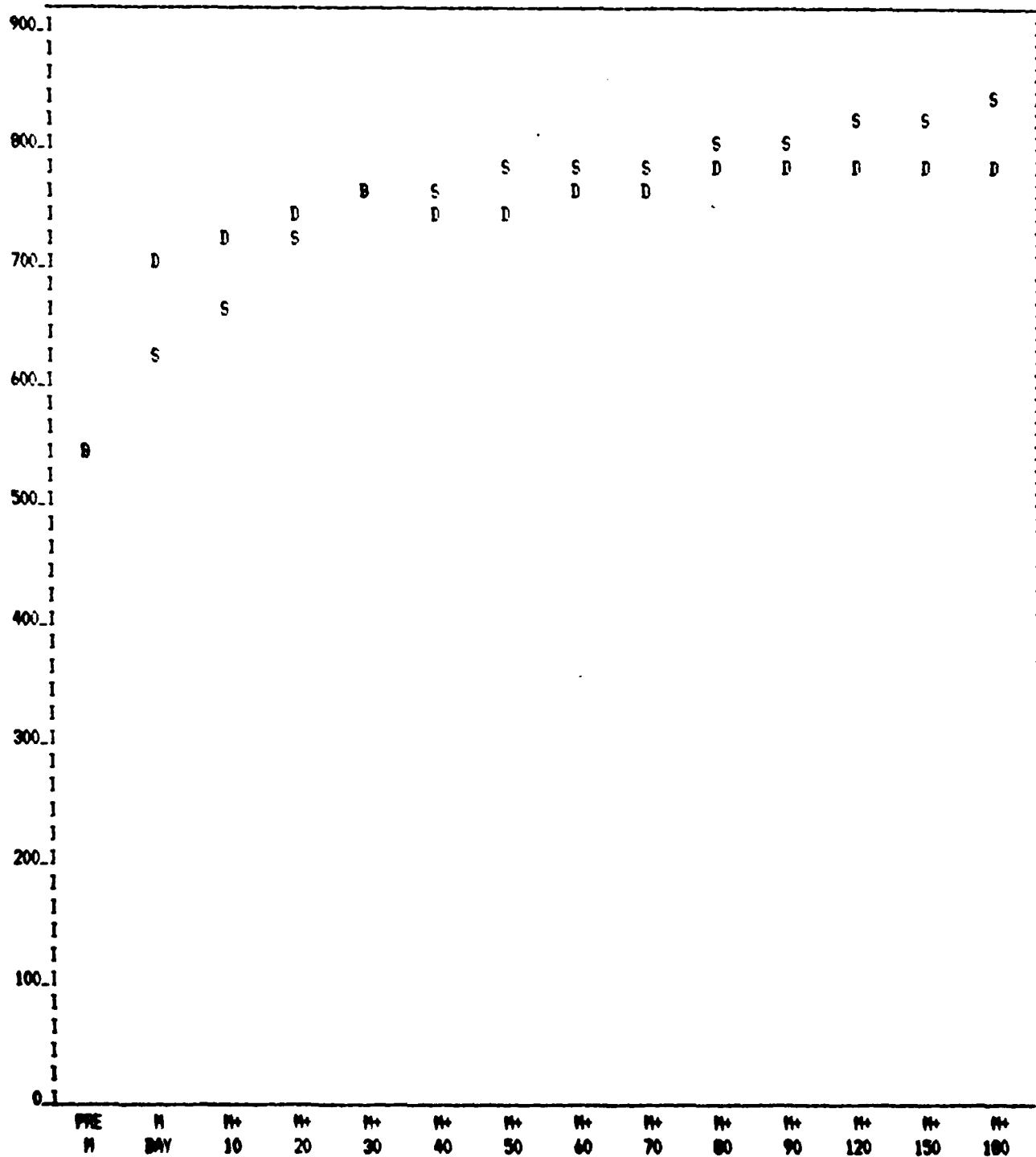
12/23/80 SEAM 1882

OFFICERS/ENLISTED CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

22

MANPOWER
(STOKE)



III.4 December 31, 1980

SUBJECT: CPAM'83 Wartime Manpower Supply and Demand

Enclosure: (1) Seawar Afloat Casualties Supply and Demand

Extract: Enclosure (1) is reproduced in the following five pages.

24

12/30/80 SEAWAR82 OFFLINE TOTAL THEATER & NON-THEATER

	PRE-1	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+100	M+110	M+120
END	550100	719925	726344	752476	777901	776432	792604	802158	800970	815918	824714	821915	824932	820202
RAINED	508400	677325	683344	710676	736601	738232	753304	762458	760770	774618	784914	781715	785432	780702
STRUCTURE	452700	596900	600900	625706	636010	634071	634190	629888	520317	630688	625914	623231	626825	625888
THEATER	123000	143400	228100	292700	306700	321400	375800	384500	387700	391500	397300	408300	410600	410600
NON-THET	329700	453500	372800	335140	335126	331610	280025	273679	266118	274969	266468	254114	255717	255083
MEDICAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIL LOS	0	0	0	-2134	-5819	-18939	-21635	-28291	-33501	-35781	-37854	-39183	-39492	-39795
NON-STRUC	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	50400	52200	52200
CAS-REPLS	0	4725	7644	12970	22092	63661	79814	90670	100053	103430	106400	108084	106407	102614
KIA	0	0	3	1589	4147	16959	20046	23416	27402	28557	29660	30452	30739	30930
WIA	0	0	13	3064	8081	35497	48634	55470	61211	64215	66410	68172	69160	69844
INBEI	0	6299	14340	23005	32374	41631	50347	58810	67266	75558	83752	91979	100227	108506
RTDS	0	-1574	-6721	-14688	-22511	-30426	-39214	-47027	-55826	-64700	-73411	-82520	-93720	-106666
TRAINNEES	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	40200	39500	39500

12/30/80 SEAWAR82 OFF/ENL TOTAL THEATER & NON-THEATER

12/30/80 SEAMAR82 OFFICERS/ENLISTED

* CUMULATIVE-SUPPLY *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	542400	627700	673400	736500	765500	779800	787800	791400	795000	802300	805900	823000	835700	848700
TRAINED	499800	585100	630400	694700	724200	741600	748500	751700	754800	761000	766100	783500	795800	809700
INITIAL AF	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SELECT RES	0	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTH'R INACT	0	0	39000	99000	122100	133300	133300	133300	133300	133300	133300	133300	133300	133300
TRAIN OUTP	0	0	6300	10600	17000	23200	30100	33300	36400	42600	47700	65100	77400	91300
TRAINEE	42600	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/30/80 SEAMAR82 OFFICERS/ENLISTED

* CUMULATIVE-DEMAND *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	550100	719925	726344	752476	777901	776432	792604	802158	800970	815918	824714	820202	811880	808506
TRAINED	508400	677325	683344	710676	736601	738232	753304	762458	760770	774618	784914	780702	771980	769506
STRUCTURE	452700	596900	600900	625706	636009	634071	634190	629888	620317	630688	625914	625888	625695	626228
NON-STRUCT	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	52200	50000	50000
CAS-REPLS	0	4725	7644	12970	22092	63661	79814	90670	100053	103630	106400	102614	96285	93278
TRAINEE	41700	42600	43000	41800	41300	38200	39300	39700	40200	41300	39800	39500	39900	39000

12/30/80 SEAWAR82 OFFICERS/ENLISTED

* CUMULATIVE-SUMMARY *

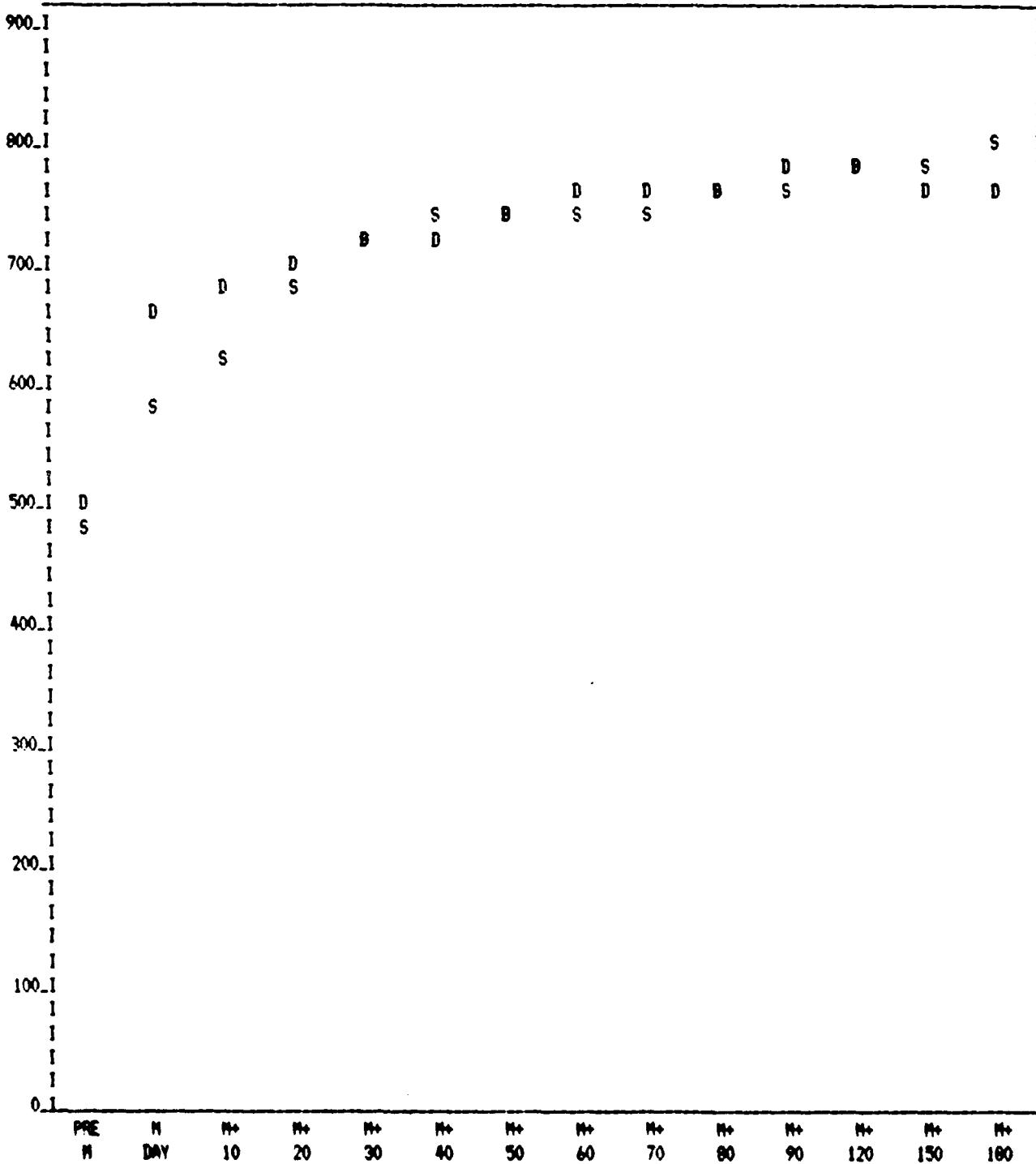
12/30/80 SEAWAR82

OFFICERS/ENLISTED CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

27

MANPOWER
(THOUS)



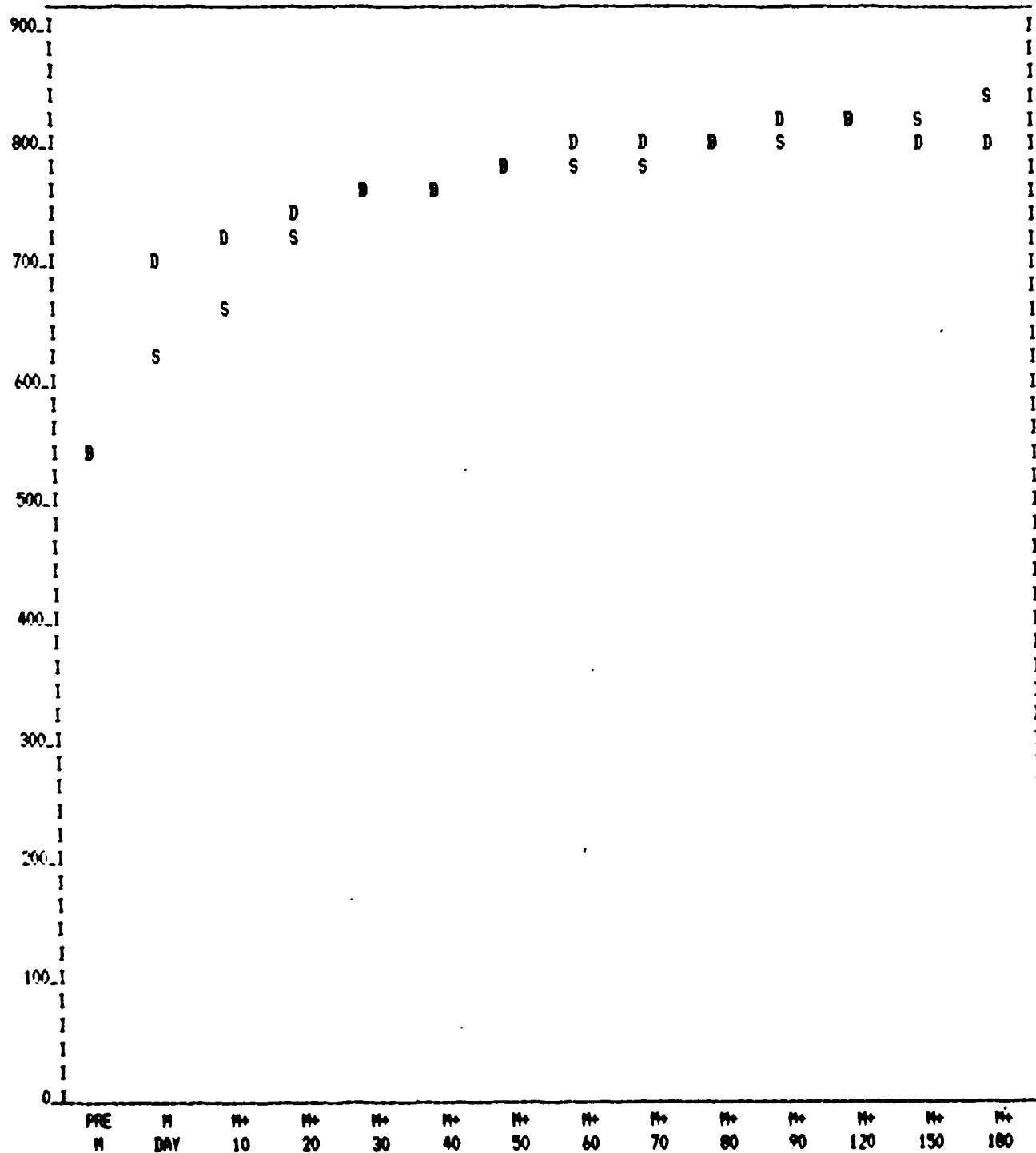
12/30/80 SEAWAR2

OFFICERS/ENLISTED CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

28

MANPOWER
(THOUS)



III.5 January 2, 1981

SUBJECT: CPAM'83 Wartime Manpower Supply and Demand

Enclosure: (1) SEAWAR Mod. I

Extract: Enclosure (1) is reproduced in the following five pages.

01/06/80 SEAWAR2M011 OFFICERS/ENLISTED

31

* CUMULATIVE-SUPPLY *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	529620	550945	596460	671280	692560	728055	766980	769500	772020	777130	779650	791620	800510	809610
TRAINED	499800	521125	566360	642020	663650	701315	739470	741710	743880	748220	751790	763970	772580	782210
INITIAL AF	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800	499800
SELECT RES	0	21325	42650	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300	85300
OTHR INACT	0	0	19500	49500	66650	99975	133300	133300	133300	133300	133300	133300	133300	133300
TRAIN OUTP	0	0	4410	7420	11900	16240	21070	23310	25480	29620	33390	45570	54180	63910
TRAINEE	29820	29820	30100	29260	28910	26740	27510	27790	28140	28910	27860	27650	27930	27300

01/06/80 SEAWAR2M011 OFFICERS/ENLISTED

* CUMULATIVE-DEMAND *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	537590	707145	713959	741247	767604	768174	785246	795774	795756	811705	822258	824819	823510	826796
TRAINED	508400	677325	683859	711987	738494	741434	757736	767984	767616	782795	794398	797169	795580	799496
STRUCTURE	452700	596900	600900	625706	636009	634071	634190	629888	620317	630698	625914	625888	625695	626228
NON-STRUCT	55700	75700	74800	72000	78500	40500	39300	41900	40400	40300	52600	52200	50000	50000
CAS-REPLS	0	4725	8159	14261	24185	66863	84245	96196	106899	111807	115884	119081	119865	123265
TRAINEE	29190	29820	30100	29260	28910	26740	27510	27790	28140	28910	27860	27650	27930	27300

01/06/80 SEAWAR2MOD1 OFFICERS/ENLISTED

• CUMULATIVE-SUMMARY •

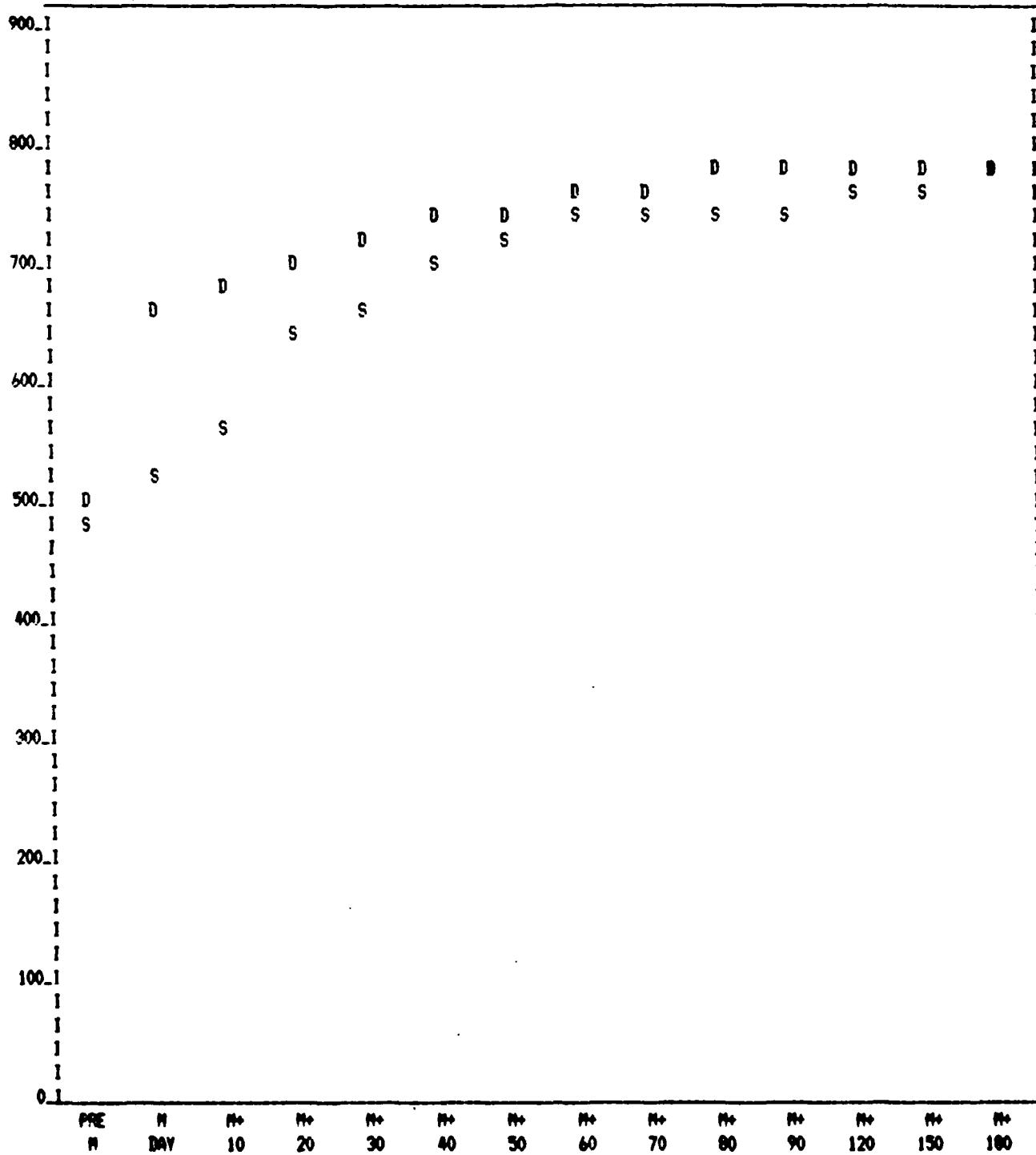
01/04/80 SEAWAR21001

OFFICERS/ENLISTED CUMULATIVE BEWING AND SUPPLY COMPARISONS

TRAINED

33

MANPOWER
(THOUS)

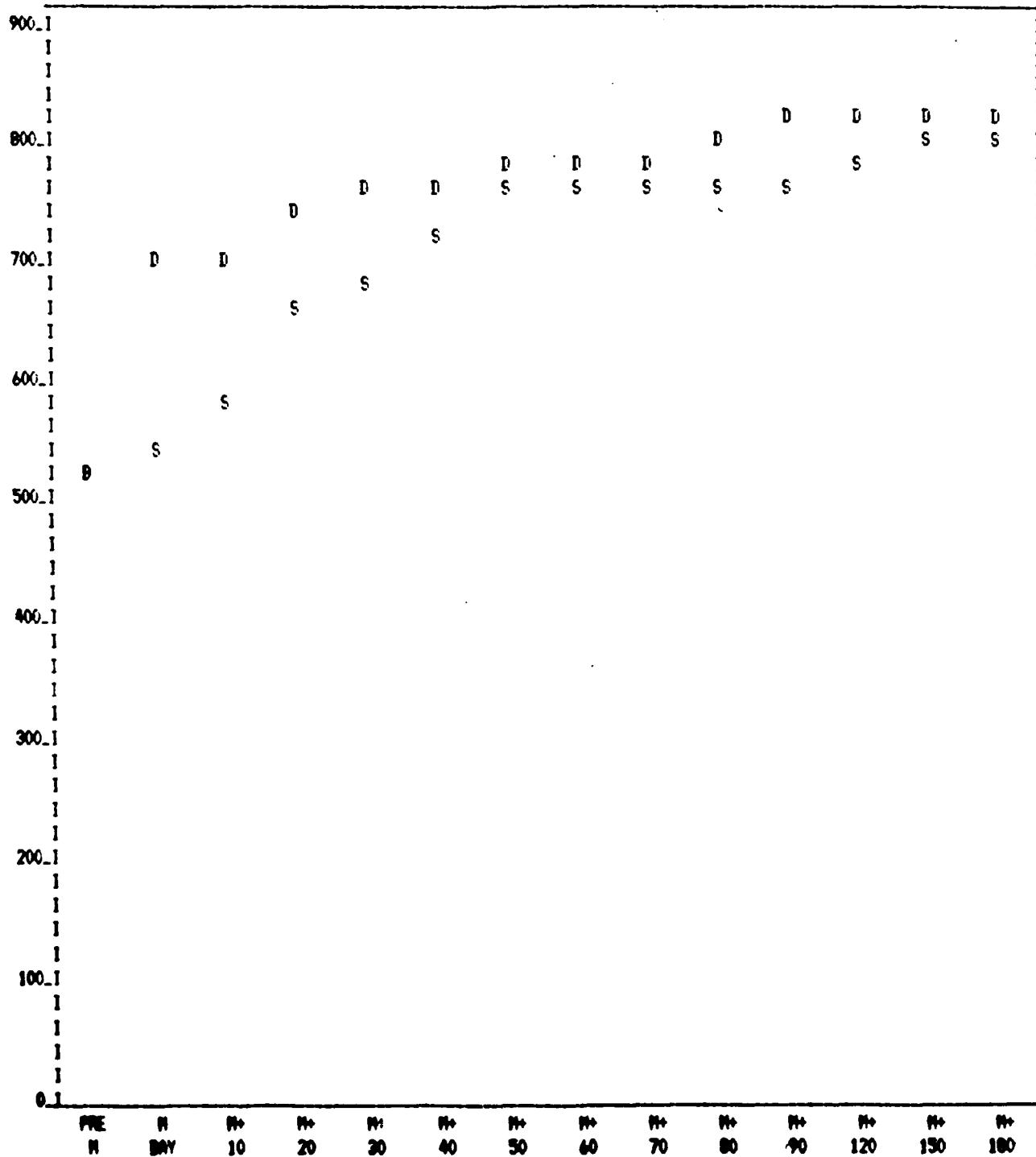


01/06/80 SEAMARCS20001
OFFICERS/ENLISTED CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

34

MANPOWER
(THOUS)



III.6 February 15, 1981

SUBJECT: Casualty Factors for the Joint Operations Plans System (JOPS)

Enclosure: None

Extract: None

III.7 Feasibility Study, ASC-P-81-002, February 1981

TITLE: Navy Wartime Skill Analysis: NATO FY'83
Hospitalmen Supply and Demand

Enclosures: (1) Hospitalman Requirements by Type Unit
(2) Additions to MAPMIS Data
(3) Hospitalmen Non-Structure Requirements
(4) Afloat War Gaming Data
(5) Hospitalman Casualties, Returns-to-Duty
and Replacement Requirements
(6) Hospitalmen Requirements
(7) Hospitalman Analysis: FY'83 NATO Requirements
(8) Hospitalmen Analysis: Workload Billets (Idealized)
(9) HM Supply FY'83
(10) Analysis Components

Extracts: Enclosures (1), (2), (3), (4), (6) and (7) are reproduced
in the following eight pages.

Enclosure (1)

HOSPITALMAN REQUIREMENTS BY TYPE UNIT

<u>Type Unit Category</u>	<u>FY83</u>	<u>Sel. Res.</u>	<u>Org. Mpwr.</u>
Afloat Units	2,125	319	3,565
Marine Units (Navy Pers.)	2,996	3,718	7,173
Navy Units Ashore with Marines	148	215	480
Ashore Other	<u>14,205</u>	<u>3,197</u>	<u>27,354</u>
TOTALS	19,474	7,449	38,572

ENCLOSURE (2)

ADDITIONS TO MAPMIS DATA

Afloat Forces

	<u>Additional HM's</u>
New Construction	39
Retained CV's	54
Corrected AH-17	253
S.S. United States	1500
LPH Medical Teams	<u>200</u>
TOTALS	2,046

Ashore Forces

3 - 250 bed field hospitals	825
2 - 500 bed field hospitals	896
6 - 1000 bed field hospitals	<u>7,290</u>
TOTALS	9,011

FY83

add 3 medical companies	177	354
and one hospital company		
to the Marine requirement		
TOTAL		11,411

ENCLOSURE (3)

HOSPITALMEN NON-STRUCTURE REQUIREMENTS

	<u>FY83</u>	<u>Wartime</u>
Students and Trainees ¹	2,864	9,208
TPS&D ²	<u>1,077</u>	<u>1,077</u>
Total Non-Structure	3,951	10,286

Hospitalmen Requirements Overall
(No Shooting)

Structure Units	19,474	49,983
Non-Structure	<u>3,951</u>	<u>10,286</u>
Total Requirements	23,425	60,269

¹From manpower authorizations.

²From projected FY83 by OP-122E2.

ENCLOSURE (4)

AFLOAT WAR GAMING DATA

Consistent with the billet losses to enemy action and the afloat battle casualty data generated for CPAM-83, the same technique was used on HM's. The sinkings and major battle damage are from SEAWAR'85, where it applies, and from SEAMIN I where necessary. For the 180 day scenario, the total of HM afloat casualties is:

KIA	172
WIA	187
WET	93
Billets Lost	265
Replacement Requirement	531

ENCLOSURE (6)

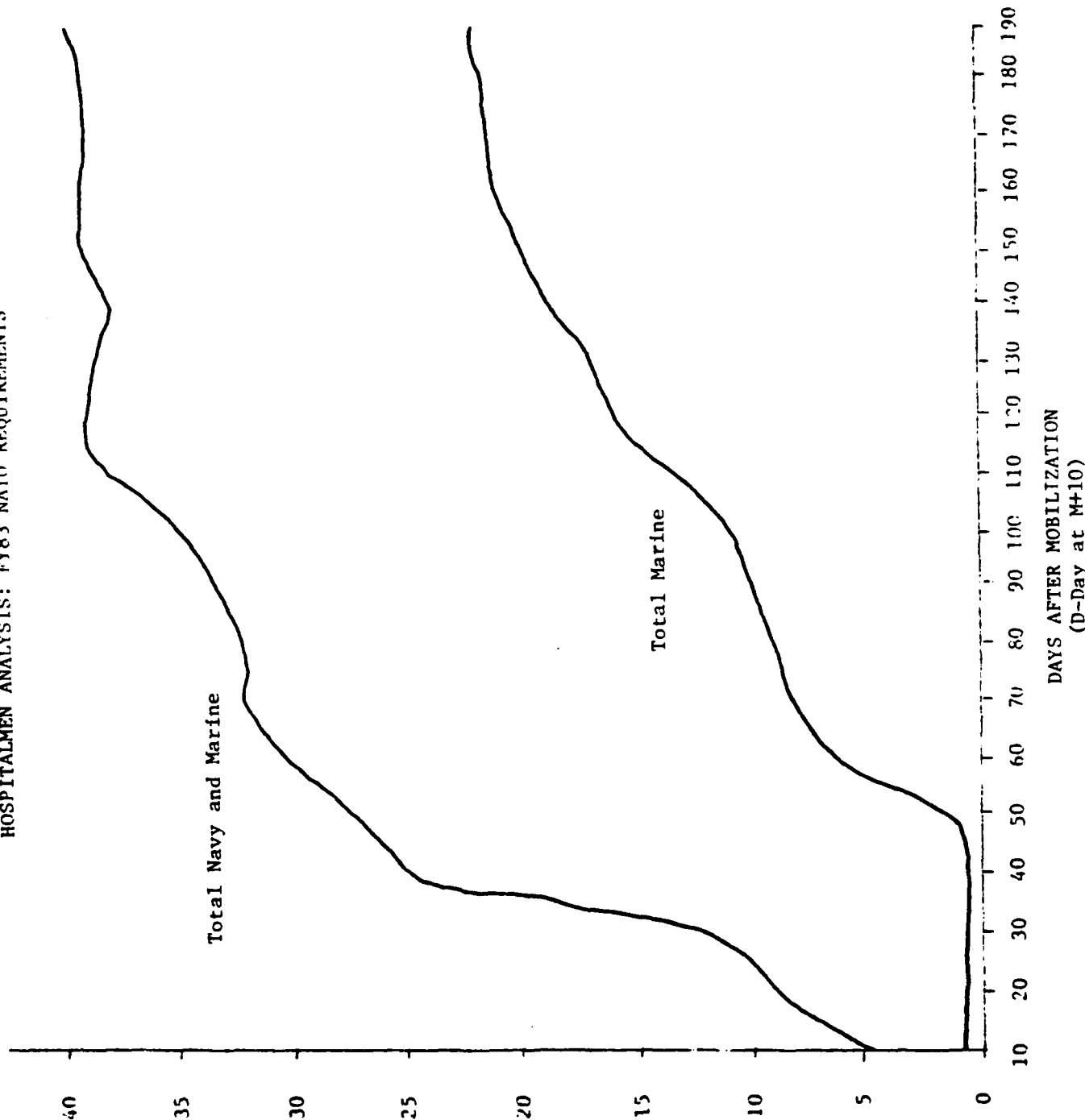
HOSPITALMEN REQUIREMENTS

First 180 days of an FY83 NATO War:

Structure Units	49,983
(sinkings account for below in replacements)	(-265)
Non-Structure Requirements	10,286
Replacements	3,948
- Navy afloat	531
- Marine Combat	3,075
- Navy/Marine Elsewhere	<u>342</u>
Sub Total	3,948
TOTAL	<hr/> 64,217

ENCLOSURE (7)

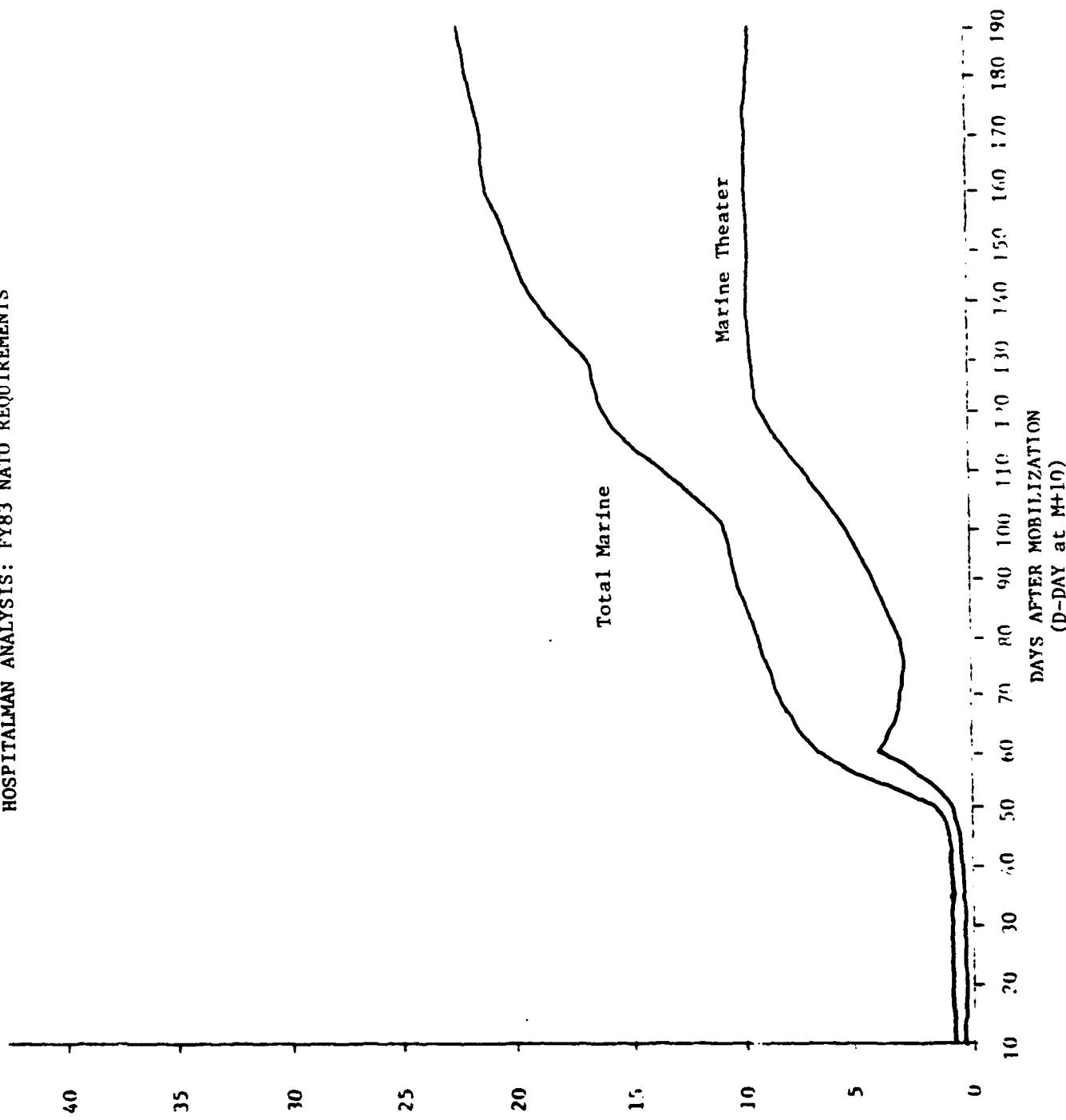
HOSPITALMEN ANALYSIS: FY83 NATO REQUIREMENTS



HOSPITALMEN X 1,000

ENCLOSURE (7)

HOSPITALMAN ANALYSIS: FY83 NATO REQUIREMENTS



ENCLOSURE (7)

HOSPITALMAN ANALYSIS: FY83 NATO REQUIREMENTS

40

35

30

25

20

15

10

5

0

HOSPITALMAN X 1,000

Total Navy

Navy Theater

DAYS AFTER MOBILIZATION
(D-DAY AT M+10)

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

III.8 March 24, 1981

SUBJECT: CPAM'83 Wartime Manpower Supply and Demand

Enclosures: (1) SEAWAR Mod. I
(2) HM/OSMOD

Extract: None

III.9 December 1, 1981

SUBJECT: Wartime Manpower for the CPAM Base Case

Enclosures: (1) Manpower for a NATO War in FY84
(2) Major Manpower Changes Compared to CPAM 83
(3) Inactive Military Supply (other than SelRes)
(4) Manpower for a NATO War in FY85

Extract: Enclosure (1) is reproduced in the following twelve pages.

ENCLOSURE (1)

45

11/25/81 FY83CPMABAS OFFICERS/ENLISTED NAVY CPAM BASE CASE

* CUMULATIVE-SUPPLY *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	581000	665625	705325	768325	804225	897225	916625	922225	925625	933625	936625	939425	964955	977222
TRAINED	539400	623125	662425	726625	793025	859125	879325	882425	885525	891625	896725	913525	924992	937862
INITIAL AF	539400	539400	539400	539400	539400	539400	539400	539400	539400	539400	539400	539400	539400	539400
SELECT RES	0	83125	83125	83125	83125	83125	83125	83125	83125	83125	83125	83125	83125	83125
OTHR INACT	0	600	35600	93600	153400	213600	227400	227400	227400	227400	227400	227400	227400	227400
TRAIN OUTF	0	0	6300	10540	16900	28400	29400	32500	35600	41700	46800	63600	75067	67967
TRAINEE	41600	42500	42600	41700	41200	36100	39300	39800	40300	41400	39900	39900	39967	39967

11/25/81 FY83CPMABAS OFFICERS/ENLISTED NAVY CPAM BASE CASE

* CUMULATIVE-DEMAND *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	505500	712225	744325	775574	856014	826020	855624	895151	917149	935622	979822	102749	106564	106477
TRAINED	543900	649793	701936	733674	814615	767420	816524	855352	876849	894222	938982	967542	1026172	1045172
STRUCTURE	476300	582265	607671	631554	694212	690667	704256	726475	735766	741317	761814	785901	806649	819343
NON-STRUCT	6770	81641	84560	81640	855600	47530	46530	49340	47840	47740	60250	60173	60093	59510
CAC-PEPLS	0	5647	9466	20215	35107	49623	65021	77527	93049	105175	116918	141522	156797	166726
TRAINEE	41600	42500	42600	41700	41200	36100	39300	39800	40300	41400	39900	39900	39967	39967

11/25/81 FY83OP40008 OFFICERS/ENLISTED NAVY OPAM BASE CASE

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• CUMULATIVE-SUMMARY •

31/12/81

FY300MMB49

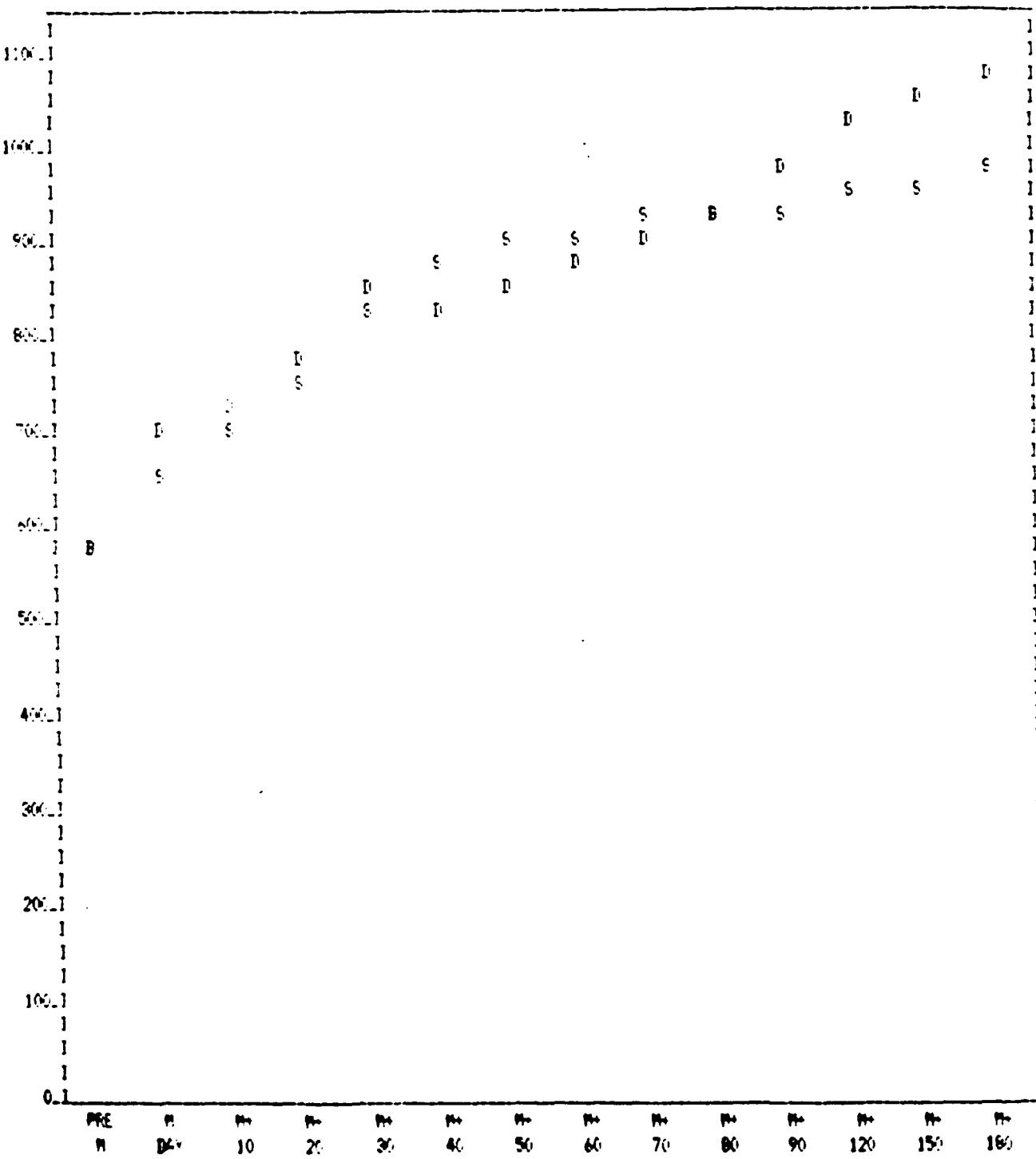
OFFICERS/ENLISTED

NAVY CPMR BASE CASE

47

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

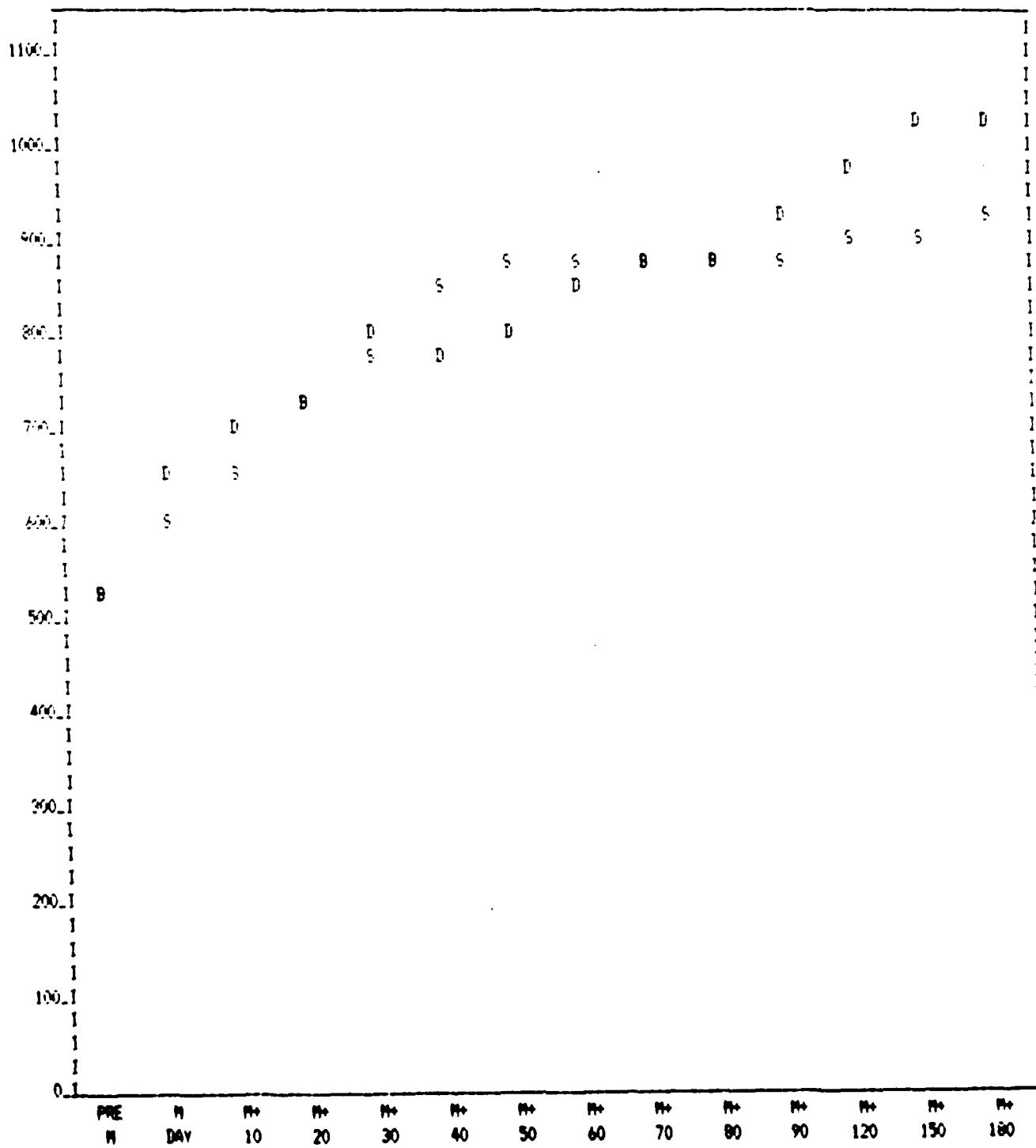
MANPOWER
(THOUS.)

11/25/81 FYSICPAMAS OFFICERS/ENLISTED NAVY CPM BASE CASE

48

CUMULATIVE DEMAND AND SUPPLY COMPARISONS TRAINED

MANPOWER
(THOUS.)



11/25/81 FY82OPIBMAS OFFICERS NAVY CRAM BASE CASE 49

* CUMULATIVE-SUPPLY *

PRE-4 N N+10 N+20 N+30 N+40 N+50 N+60 N+70 N+80 N+90 N+100 N+110 N+120 N+130 N+140

TOTAL 70100 84957 95057 106567 121567 139767 153167 153167 153167 153167 153167 153167 153167 153167 153167 153167

TRAINED 70100 84957 95057 106567 121567 139767 153167 153167 153167 153167 153167 153167 153167 153167 153167 153167

INITIAL AF 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100 70100

SELECT PES 0 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487 16487

OTHR INACT 0 400 8500 20000 35000 53000 66600 66600 66600 66600 66600 66600 66600 66600 66600 66600

TRAIN INTR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

11/25/81 FY82OPIBMAS OFFICERS NAVY CRAM BASE CASE

* CUMULATIVE-DEMAND *

PRE-4 N N+10 N+20 N+30 N+40 N+50 N+60 N+70 N+80 N+90 N+100 N+110 N+120 N+130 N+140

TOTAL 71400 97658 105342 112362 125389 121915 129311 136290 143277 149362 156600 172352 185234 191115

TRAINED 71400 97658 105342 112362 125389 121915 129311 136290 143277 149362 156600 172352 185234 191115

STRUCTURE 58640 75657 83053 88595 100188 104143 110449 115302 121780 125658 132631 145612 156637 161385

NON-STRUCT 12500 18285 21100 21500 21600 12630 12330 12240 12140 12240 12250 12270 12533 12610

CAS-REPLS 0 716 1209 2264 3600 4942 6532 7773 9257 11464 11612 14165 15064 17120

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

11/25/81 FVB30PWA1 OFFICERS NAVY DMF BASE CASE

• CUMULATIVE-SUMMARY •

PRE-H H H+10 H+20 H+30 H+40 H+50 H+60 H+70 H+80 H+90 H+120 H+150 H+180

SUPPLY 70100 86987 95077 106567 121567 129767 153167 153167 153167 153167 153167 153167 153167 153167

TRAINED 70100 86987 95077 106567 121567 129767 153167 153167 153167 153167 153167 153167 153167 153167

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

DEMAND 71400 97656 105362 112362 125399 121915 129311 135290 143277 148362 156601 172352 185234 191115

TRAINED 71400 97656 105362 112362 125399 121915 129311 135290 143277 148362 156601 172352 185234 191115

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SHORT/ OVER

TOTAL -1371 -10671 -10275 -5775 -3911 17871 23674 17747 -910 4625 -3414 -19165 -32047 -37929

TRAINED -1371 -10671 -10275 -5775 -3911 17871 23674 17747 9810 4625 -3414 -19165 -32047 -37928

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

11/25/81

FYSICPAMAS

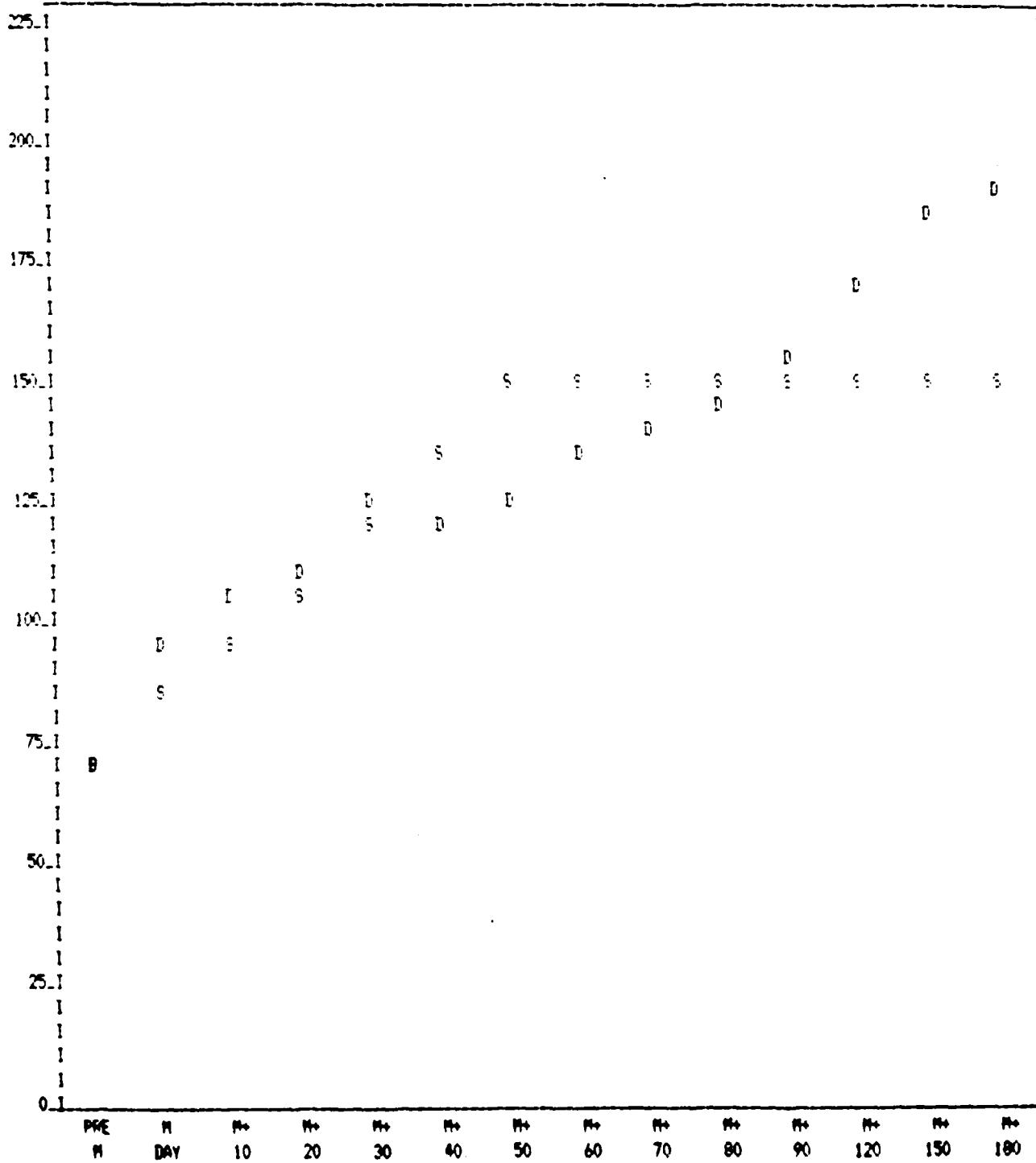
OFFICERS

NAVY CRIM BASE CASE

51

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

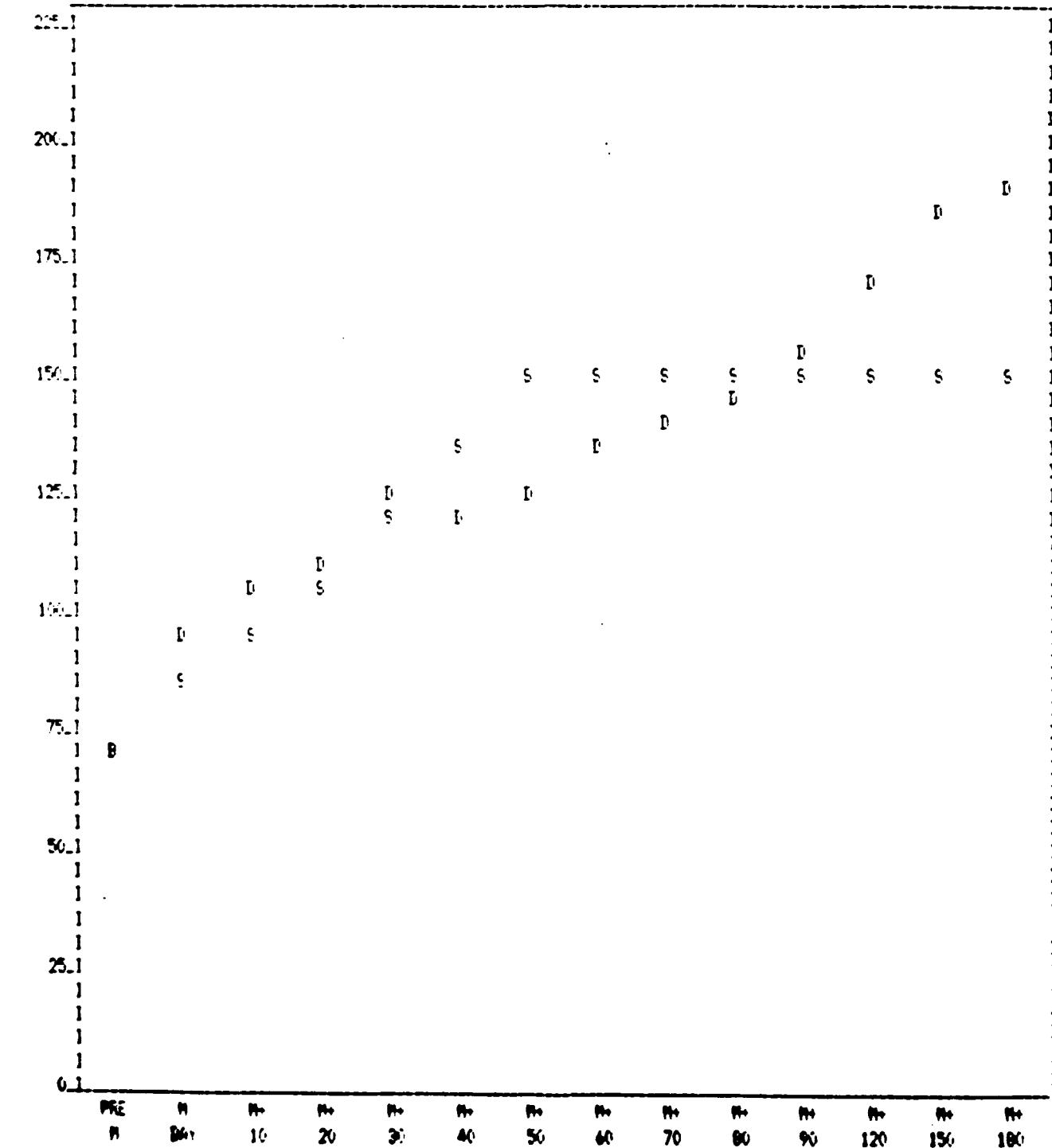
11/25/81 FY83CPWBAS OFFICERS

NAVY CRIM BASE CASE

52

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

MANPOWER
(THOUS.)

11/25/01 F183PAM01 ENLISTED

NAVY DPMF BASE CASE

* CUMULATIVE-SUPPLY *

	PRE- P	P P+10	P+20	P+30	P+40	P+50	P+60	P+70	P+80	P+90	P+100	P+110	P+120	P+130	P+140
TOTAL	510936	574636	616236	641736	712636	757436	765436	769336	772636	774636	783436	804236	811731	824236	
TRAINED	469366	536136	567236	620636	671436	711336	726136	729236	732336	736436	743536	760336	771835	784705	
INITIAL SF	469366	469366	469366	469366	469366	469366	469366	469366	469366	469366	469366	469366	469366	469366	
SELECT RES	0	66636	66636	66636	66636	66636	66636	66636	66636	66636	66636	66636	66636	66636	
OT+ INACT	0	200	25100	73600	116600	160400	160800	160800	160800	160800	160800	160800	160800	160800	
TRANS OUTP	0	0	6300	10500	14900	20000	29400	32500	35600	41700	46540	63600	75647	87967	
TRAINEE	41646	42506	42906	41706	41206	36106	39306	39606	40306	41430	39946	39946	39947	39947	

11/25/01 F183PAM01 ENLISTED

NAVY DPMF BASE CASE

* CUMULATIVE-DEMAND *

	PRE- P	P P+10	P+20	P+30	P+40	P+50	P+60	P+70	P+80	P+90	P+100	P+110	P+120	P+130	P+140
TOTAL	514167	574636	623476	662212	734621	744125	726526	755762	773772	757270	822262	855144	865412	843664	
TRAINED	472641	572126	546576	621512	689431	666406	667226	710962	733472	745870	762382	815244	840445	854164	
STRUCTURE	417447	503626	524916	542451	594024	565524	594524	613006	614186	615656	624181	640085	652112	657655	
NON-STRUCT	55106	63276	63476	60106	63900	34866	34246	37106	35546	35540	47900	47800	47540	46900	
CAS-REFLS	0	5151	8257	18451	31506	44461	58481	69754	69751	94711	105301	127354	142732	149662	
TRAINEE	41647	42506	42906	41706	41206	36106	39306	39606	40306	41430	39946	39946	39947	39947	

11/25/81 F183CPMAS ENLISTED

NAVY DEAN BASE CASE

54

• CUMULATIVE-SUMMARY •

PRE- n n $n+10$ $n+20$ $n+30$ $n+40$ $n+50$ $n+60$ $n+70$ $n+80$ $n+90$ $n+120$ $n+150$ $n+180$

SUPPLY 510900 578638 610238 661738 712638 757438 785438 782938 772638 775538 793438 801238 811771 824205

TRAINEE 41600 42530 42900 41700 41200 38100 35300 39800 40300 41400 293(1) 39900 39900 39567 36561

Digitized by srujanika@gmail.com

32446 314100 614635 63976 683212 700630 704105 726526 739762 773772 781279 822292 855184 880412 893664

472500 572435 596576 621512 689430 666005 687228 719962 733472 745870 782222 815244 840445 864164

TRAINEE 41600 42500 42900 41700 41200 38100 39300 39800 40300 41400 39910 39900 39967 39940

TOTAL OVER **2000** **2001** **2002** **2003** **2004** **2005** **2006** **2007** **2008** **2009**

-3240 -35497 -29238 -1474 -17992 53333 38919 9276 -1134 -7432 -3344 -54966 -63640 -63459

0 0 0 0 0 0 0 0 0 0 0 0 0

11/25/81

FY80CPM8AS

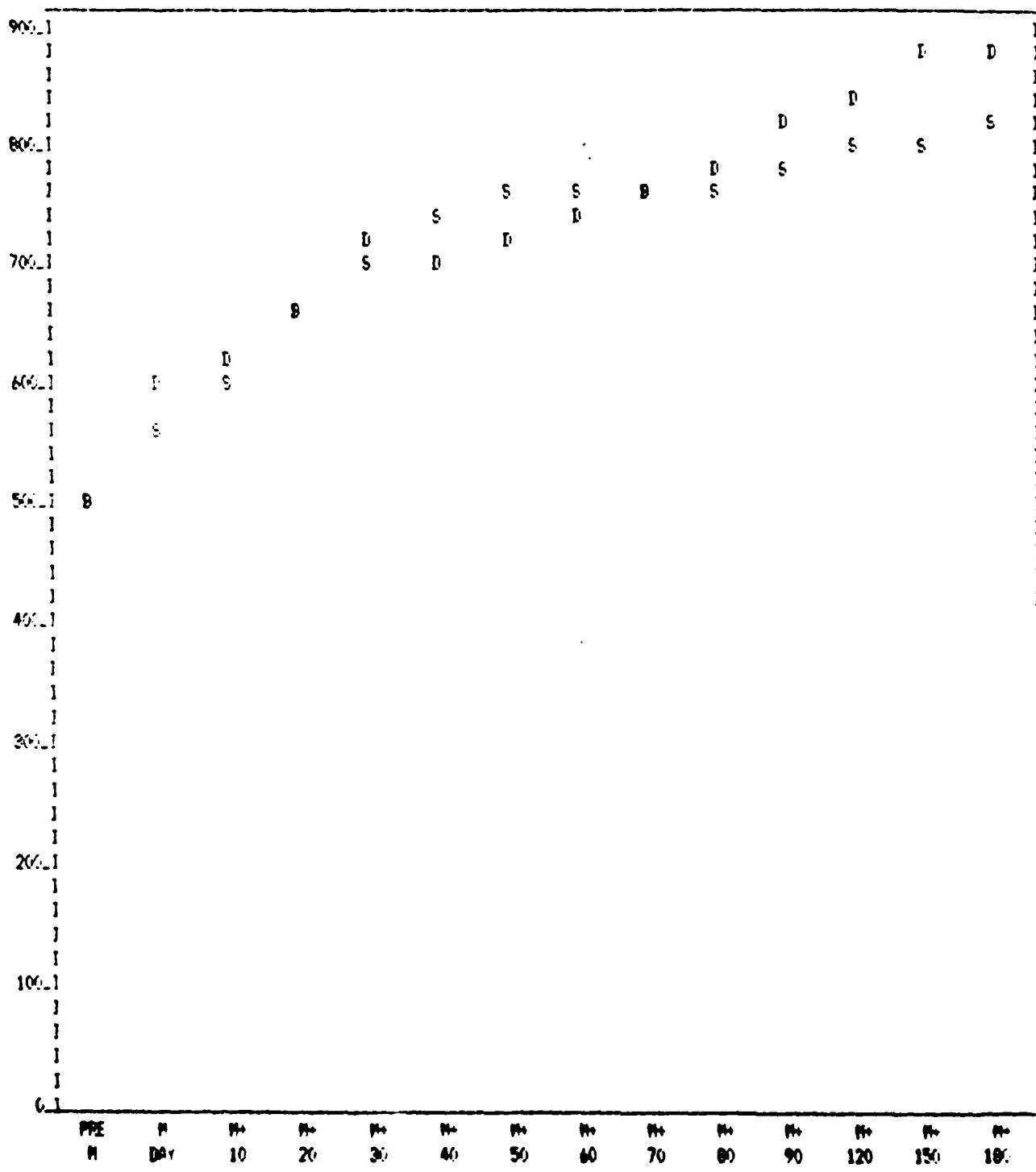
ENLISTED

NAVY CPM BASE CASE

55

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS.)

11/23/81

FY83CPAMAS

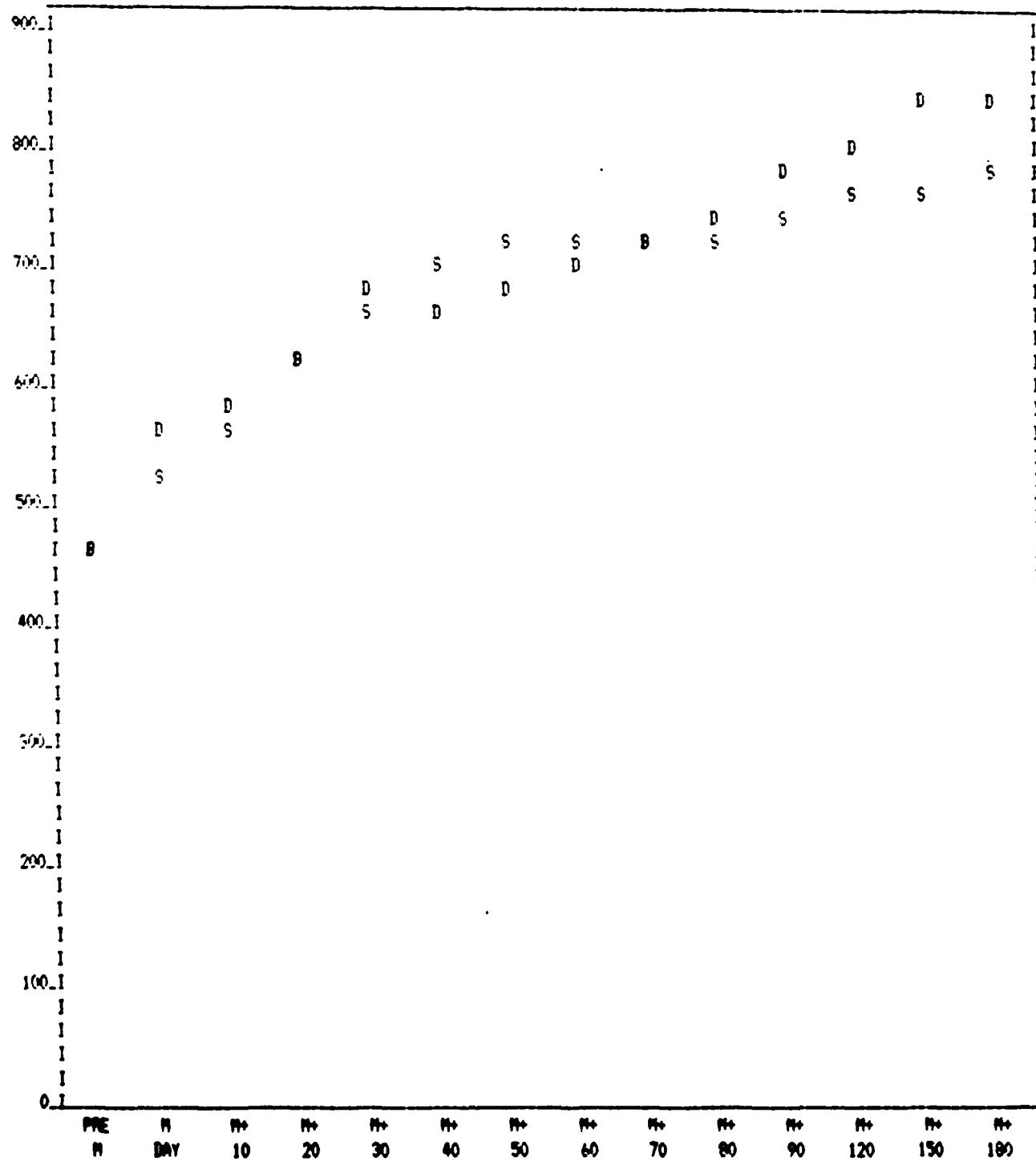
ENLISTED

NAVY CRAM BASE CASE

56

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

MANPOWER
(THOUS.)

III.10 December 9, 1981

SUBJECT: Wartime Manpower for the CPAM

Enclosures: (1) Manpower for a NATO War in FY88 (Demand Scenario)
(2) Manpower for a NATO War in FY88 (Requirements Scenario)
(3) Inactive Military Supply (other than SelRes)
(4) Major Manpower Changes in "Demand" Scenarios
(5) Internal Scenario Differences: Demands vice Requirements
(6) Medical Capabilities in Theaters of Operations as used in POM-83 WARMAPS

Extract: Enclosure (2) is reproduced in the following twelve pages.

12/08/81 FY87CPWREQD OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'MTS

* CUMULATIVE-SUPPLY *

	PRE-1	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	617300	713600	753300	816300	882200	945200	1012800	1064200	1067800	1075000	1078600	1095400	1106933	1119367
TRAINED	568000	661500	700800	765000	831400	897500	963900	1014800	1017900	1024000	1029100	1045900	1057367	1070267
INITIAL AF	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000
SELECT RES	0	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600
OTHR INACT	0	900	33900	93900	153900	213900	273900	321700	321700	321700	321700	321700	321700	321700
TRAIN OUTP	0	0	6300	10500	16900	23000	29400	32500	35600	41700	46800	63600	75067	87967
TRAINEE	49300	52100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/08/81 FY87CPWREQD OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'MTS

* CUMULATIVE-DEMAND *

	PRE-1	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	613899	815772	885885	923390	981275	951448	960251	984947	991393	1002071	1035311	1036363	1045077	1061204
TRAINED	564599	765672	833385	872090	930475	903748	911351	935547	941493	951071	985811	986843	995510	1012104
STRUCTURE	501999	682392	743795	774338	820852	824286	820671	833311	829482	831987	848073	843549	849596	861163
NON-STRUCT	62600	77300	80200	78200	78100	36030	34930	37740	36240	36140	48650	48573	48433	47910
CAS-REPLS	0	5980	9390	19552	31523	43432	55750	64496	75771	82944	89088	94740	97481	103031
TRAINEE	49300	50100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/08/81 FY87CPWREQD OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'DNTS

59

• CUMULATIVE-SUMMARY •

12/08/81

FY87OPREP8

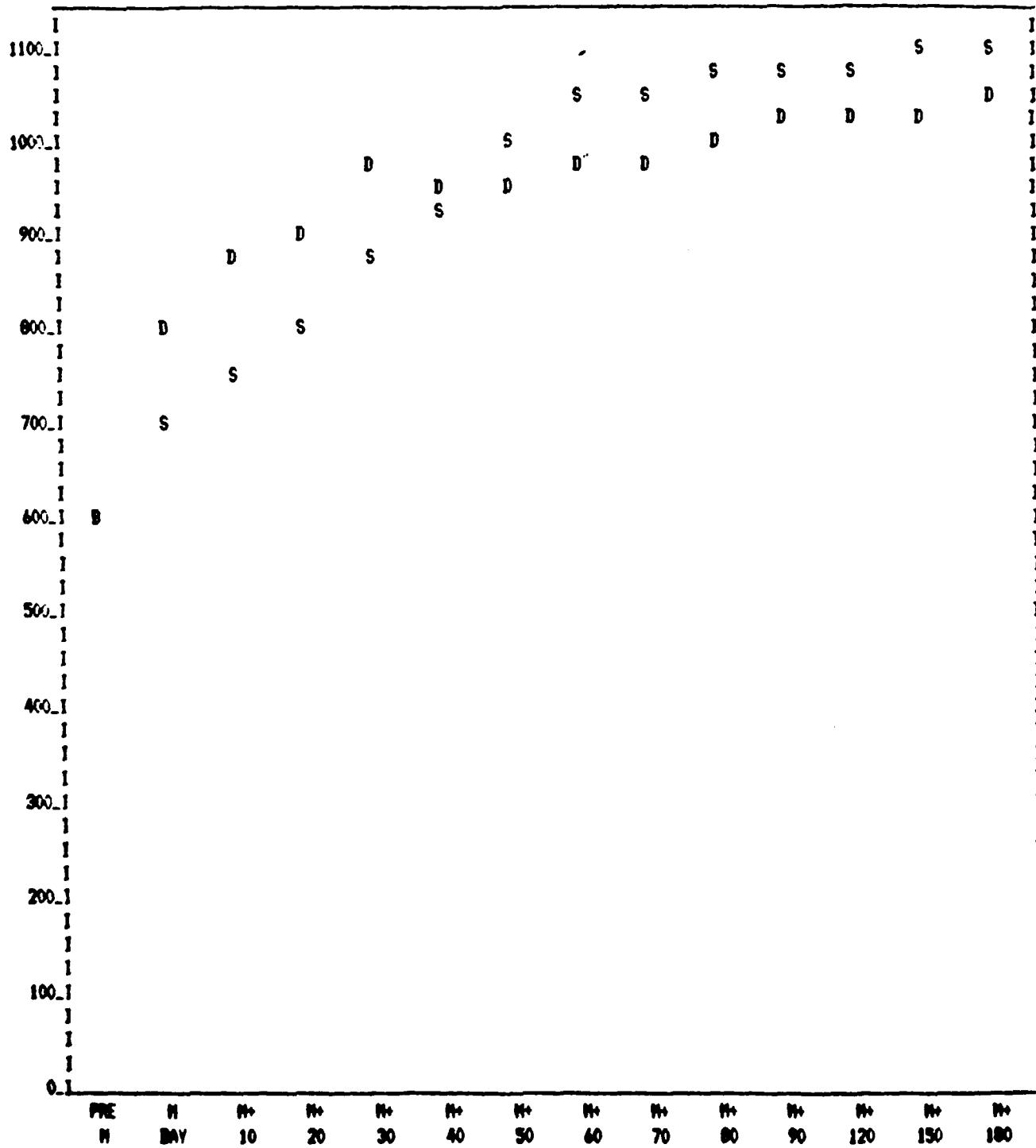
OFFICERS/BALISTED

NAVY WORLD-WIDE REB'NTS

60

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

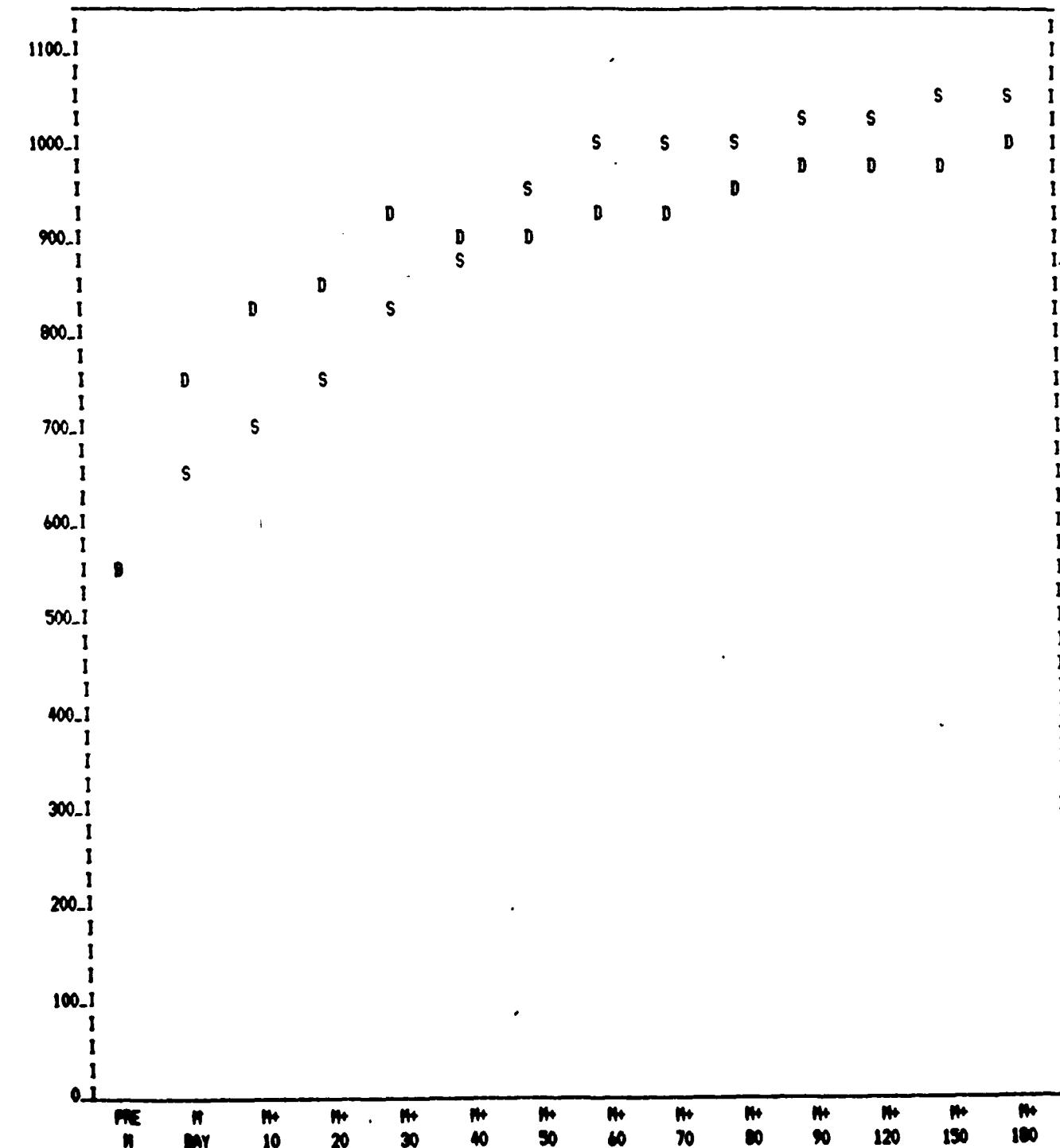
MANPOWER
(THOUS)

12/08/81 FY87CPARRED OFFICERS/ENLISTED NAVY WORLD-WIDE REQU'NTS

61

CUMULATIVE DEMAND AND SUPPLY COMPARISONS TRAINED

MANPOWER
(THOUS)



12/08/81 F187CPAHRB OFFICERS

NAVY WORLD-WIDE REPORTS

62

• CUMULATIVE-SUPPLY •

12/08/81 FY87CPAMREQ OFFICERS

NAVY WORLD-WIDE REPP'NTS

CUMULATIVE DEMAND

12/09/2011 877/8900769 8710253

Many World-Wide Reports

• CUMULATIVE-SUMMARY •

PRE-11 11 11-10 11-20 11-30 11-40 11-50 11-60 11-70 11-80 11-90 11-120 11-130 11-180

SUPPLY 75200 93800 101900 115800 130800 145800 160800, 169200 169200 169200 169200 169200 169200

TRAINED 75200 93800 101900 115800 130800 145800 160800 169200 169200 169200 169200 169200 169200 169200

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

BENWAND 76551 107148 115562 120006 133536 130243 125572 128405 129542 130312 133854 133547 134763 134869

TRAINED 76551 107148 115562 120004 133536 130243 125572 128405 129542 130312 133654 133547 134763 136869

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SHIRT (OVER)

TOTAL -1351 -13348 -13662 -4206 -2736 15557 35228 40795 39658 38888 35346 35653 34437 32331

TRAINED -1351 -13348 -13662 -4206 -2736 15557 35228 40795 39658 38988 35346 35453 34437 32331

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0

12/08/81

FY87OPNREQ

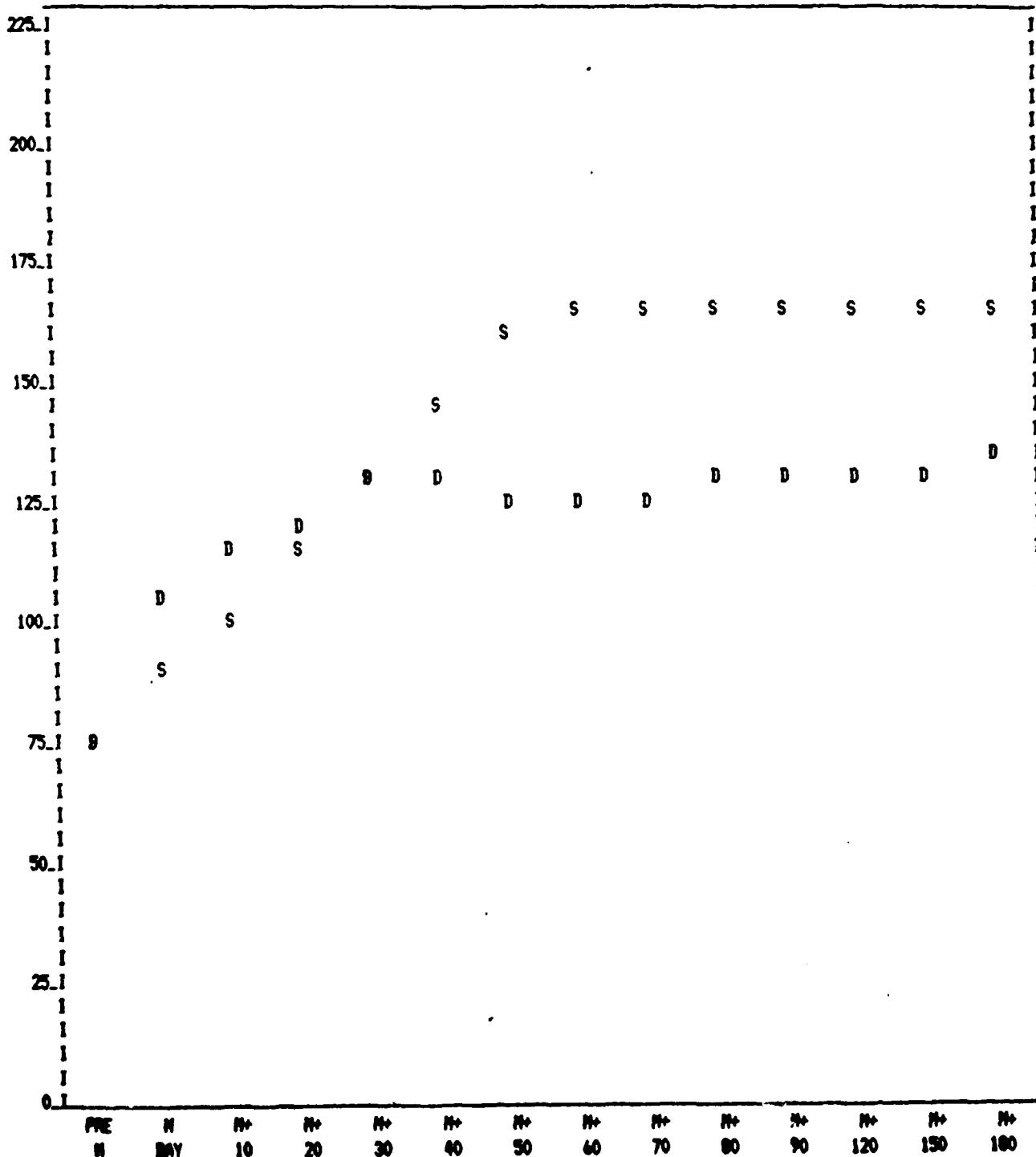
OFFICERS

NAVY WORLD-WIDE REG'NTS

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

64

MANPOWER
(THOUS)

12/08/01

FY07DRAFTED

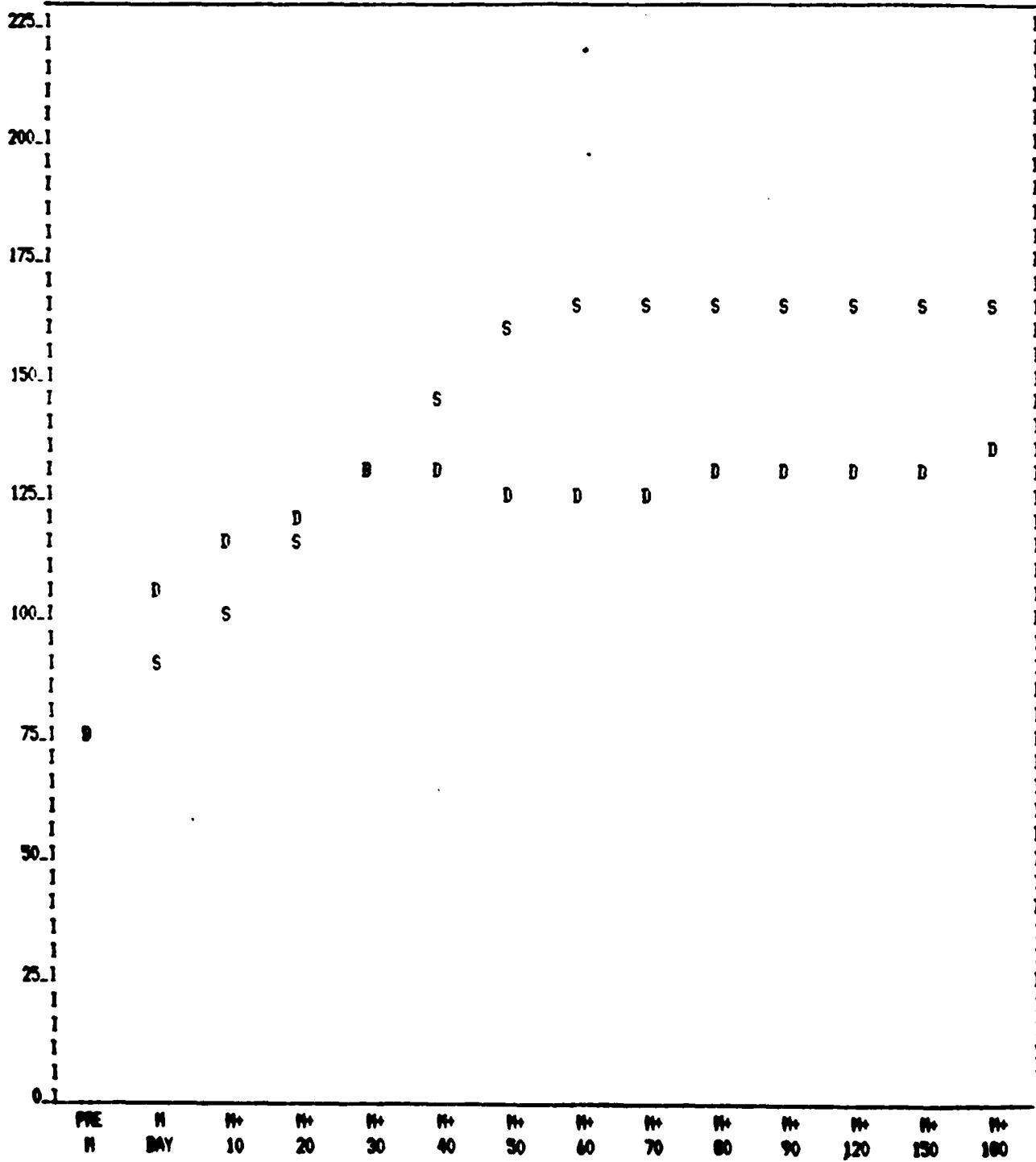
OFFICERS

NAVY WORLD-WIDE REG'NTS

65

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

MANPOWER
(THOUS)

12/08/81 FY87DPAHREQ ENLISTED

NAVY WORLD-WIDE REQ'MTS

* CUMULATIVE-SUPPLY *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	542100	619800	651400	700500	751400	799400	852000	895000	892600	905800	909400	926200	937733	950167
TRAINED	492800	567700	598900	649200	700600	751700	803100	845600	848700	854800	859900	876700	888167	901067
INITIAL AF	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800
SELECT RES	0	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400
OTHR INACT	0	500	25400	71500	116500	161500	206500	245900	245900	245900	245900	245900	245900	245900
TRAIN OUTP	0	0	6300	10500	16900	23000	29400	32500	35600	41700	46800	63600	75067	87967
TRAINEE	49300	52100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/08/81 FY87DPAHREQ ENLISTED

NAVY WORLD-WIDE REQ'MTS

* CUMULATIVE-DEMAND *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	537346	708623	770323	803384	847739	821205	834679	856542	861851	871759	901457	902815	910314	924335
TRAINED	488048	658523	717823	752084	796939	773505	785779	807142	811951	820759	851957	853315	860747	875235
STRUCTURE	439348	595090	651721	679172	711611	709779	711701	722310	718542	720930	734220	730778	736193	746427
NON-STRUCT	48700	58200	57900	55500	57100	24800	24200	27100	25500	25500	37900	37800	37500	36900
CAS-REPLS	0	5233	8202	17412	28228	38926	49878	57732	67909	74329	79837	84737	87054	91908
TRAINEE	49300	50100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/08/81

FIGURE 1

ENLISTED

NAVY WORLD-WIDE REPRINTS

67

* CUMULATIVE-SUMMARY *

PRE-11 11-10 11-20 11-30 11-40 11-50 11-60 11-70 11-80 11-90 11-100 11-120 11-150 11-180

12/08/81

FY87DPOWER

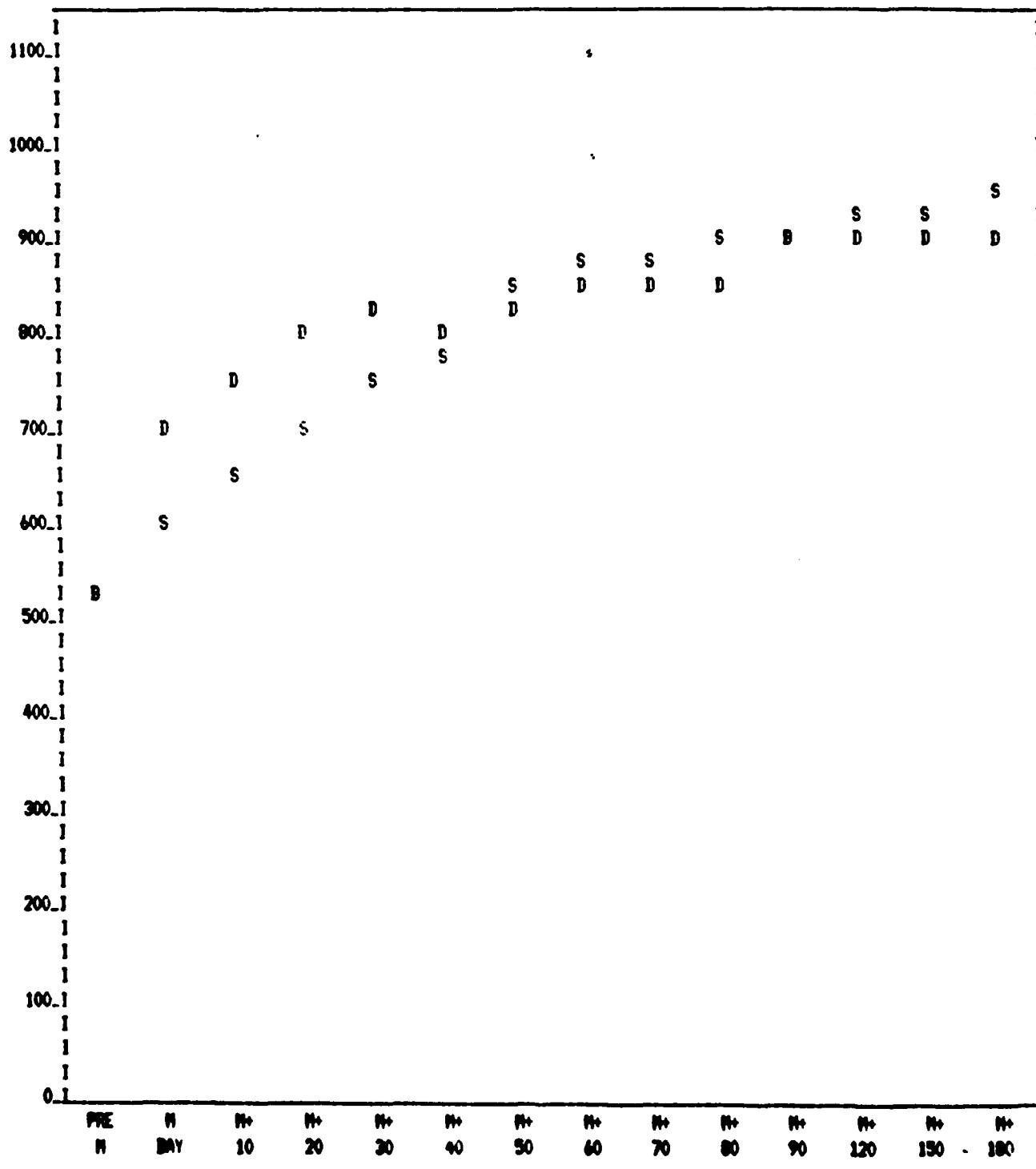
ENLISTED

NAVY WORLD-WIDE REQ'DNTS

68

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

12/08/81

FY87OPWED

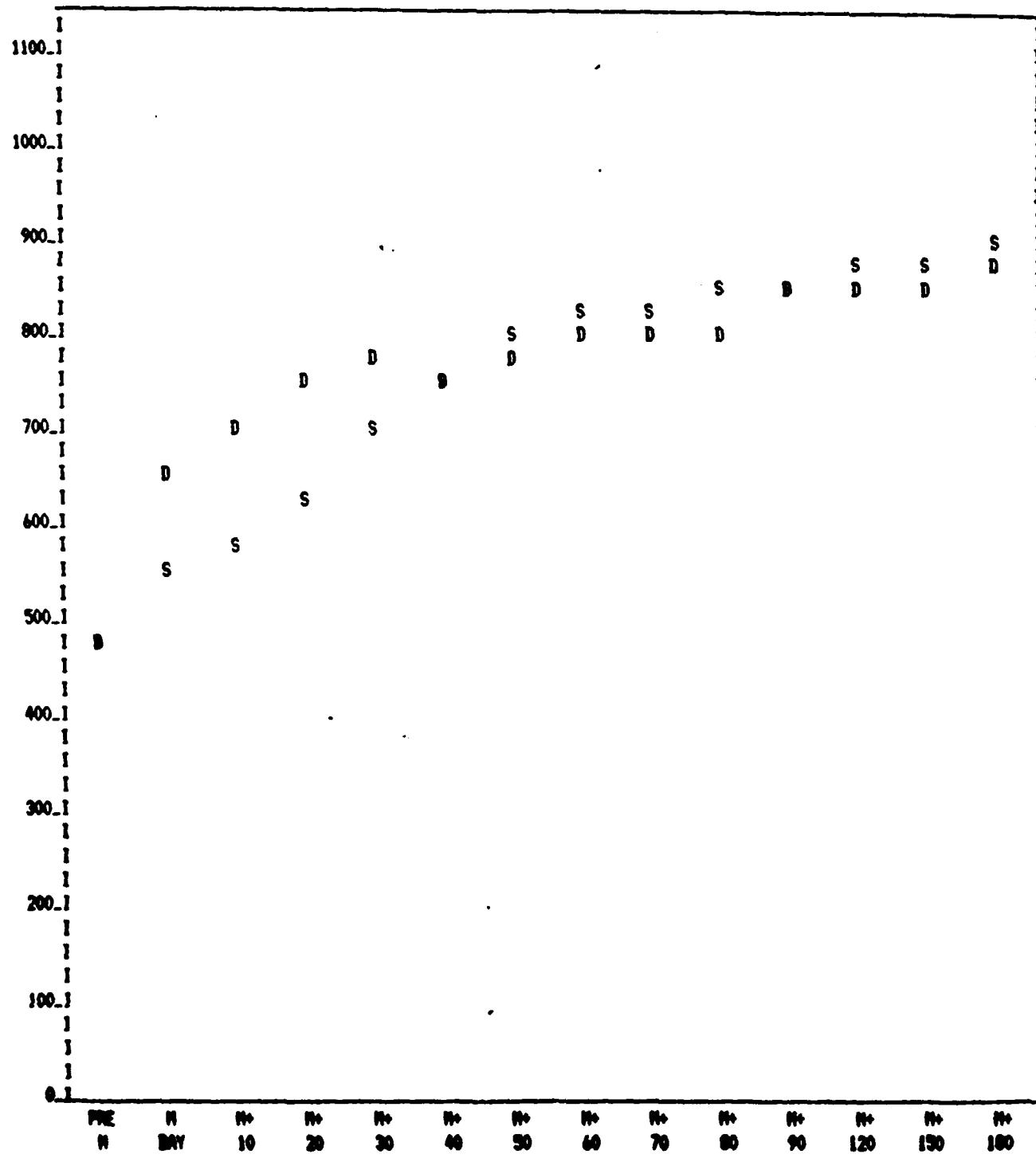
ENLISTED

NAVY WORLD-WIDE REPS'NTS

69

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

MANPOWER
(THOUS.)

III.11 December 14, 1981

SUBJECT: Corrections to the Wartime Manpower for FY'87-FY'88

Enclosures: (1) Manpower for a NATO War in FY'88 (Demand Scenario)

(2) Manpower for a NATO War in FY'88 (Requirements Scenario)

(3) Inactive Personnel Supplies (other than SelRes)

Extract: Enclosure (2) is reproduced in the following sixteen pages.

12/11/81 FY87CPANREQ OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'MNTS

71

* CUMULATIVE-SUPPLY *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	617300	713600	753300	816300	882200	945200	996700	1000300	1003900	1011100	1014700	1031500	1043033	1055467
TRAINED	568000	661500	700800	765000	831400	897500	947800	950900	954000	960100	965200	982000	993467	1006367
INITIAL AF	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000	568000
SELECT RES	0	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600	92600
OTHR INACT	0	900	33900	93900	153900	213900	257800	257800	257800	257800	257800	257800	257800	257800
TRAIN OUTP	0	0	6300	10500	16900	23000	29400	32500	35600	41700	46800	63600	75067	87967
TRAINEE	49300	52100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/11/81 FY87CPANREQ OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'MNTS

* CUMULATIVE-DEMAND *

	PRE-M	M	M+10	M+20	M+30	M+40	M+50	M+60	M+70	M+80	M+90	M+120	M+150	M+180
TOTAL	613899	815772	885985	923390	981275	951448	960251	984947	991393	1002071	1035311	1036363	1045077	1061204
TRAINED	564599	765672	833385	872090	930475	903748	911351	935547	941493	951071	985811	986863	995510	1012104
STRUCTURE	501999	682392	743795	774338	820852	824286	820671	833311	829482	831987	849073	843549	849596	861163
NON-STRUCT	62600	77300	80200	78200	78100	36030	34930	37740	36240	36140	48650	48573	48433	47910
CAS-REPLS	0	5980	9390	19352	31523	43432	55750	64496	75771	82944	89088	94740	97481	103031
TRAINEE	49300	50100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/11/01 FV07CPWRE9 OFFICERS/ENLISTED NAVY WORLD-WIDE REG'NTS

* CUMULATIVE-SUMMARY *

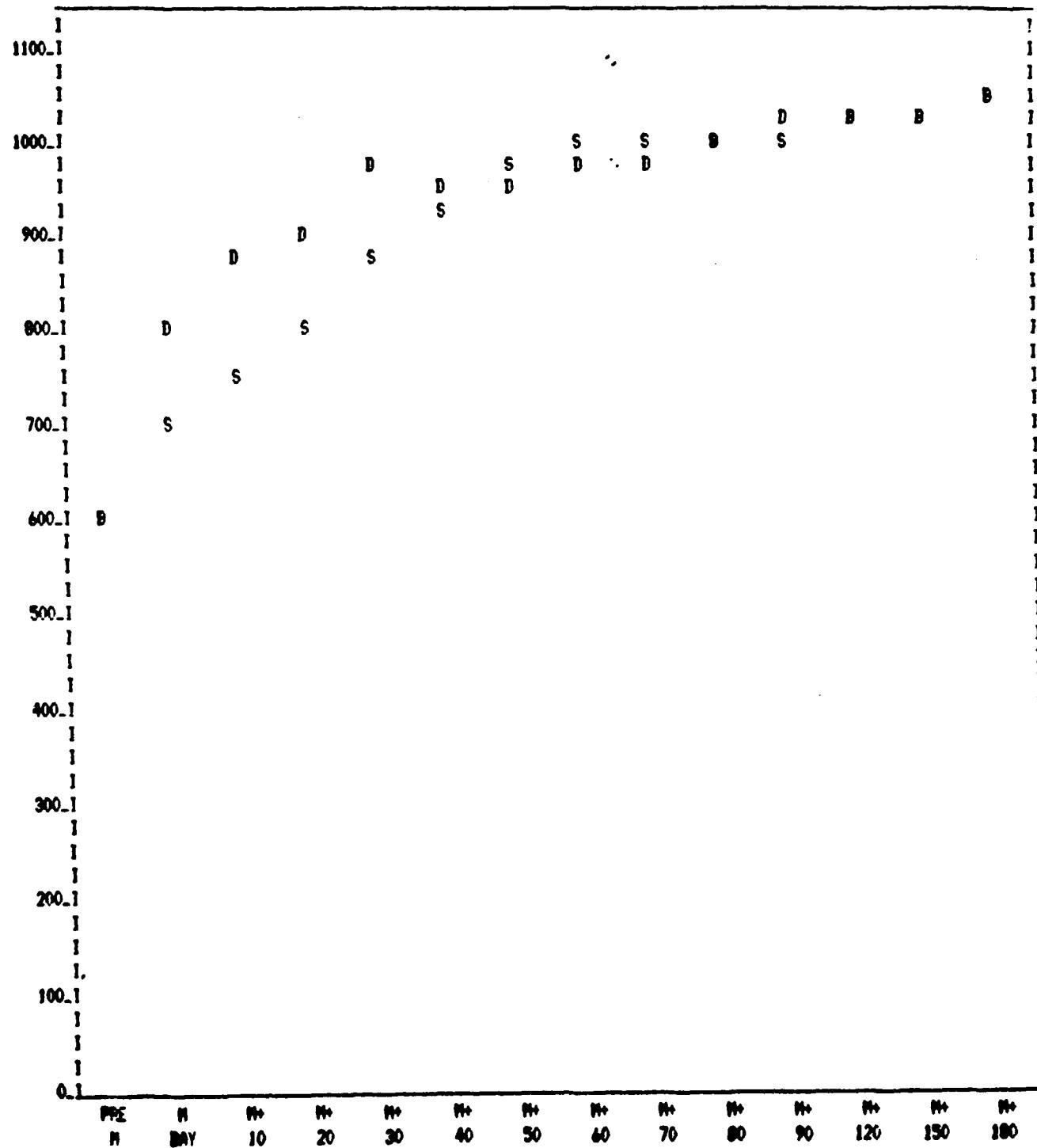
PRE-11 11 11-10 11-20 11-30 11-40 11-50 11-60 11-70 11-80 11-90 11-120 11-150 11-180

12/11/81 F18704882 OFFICERS/ENLISTED NAVY WORLD-WIDE REG'TENTS

73

CUMULATIVE DEMAND AND SUPPLY COMPARISONS TOTAL

MANPOWER
(THOUS.)



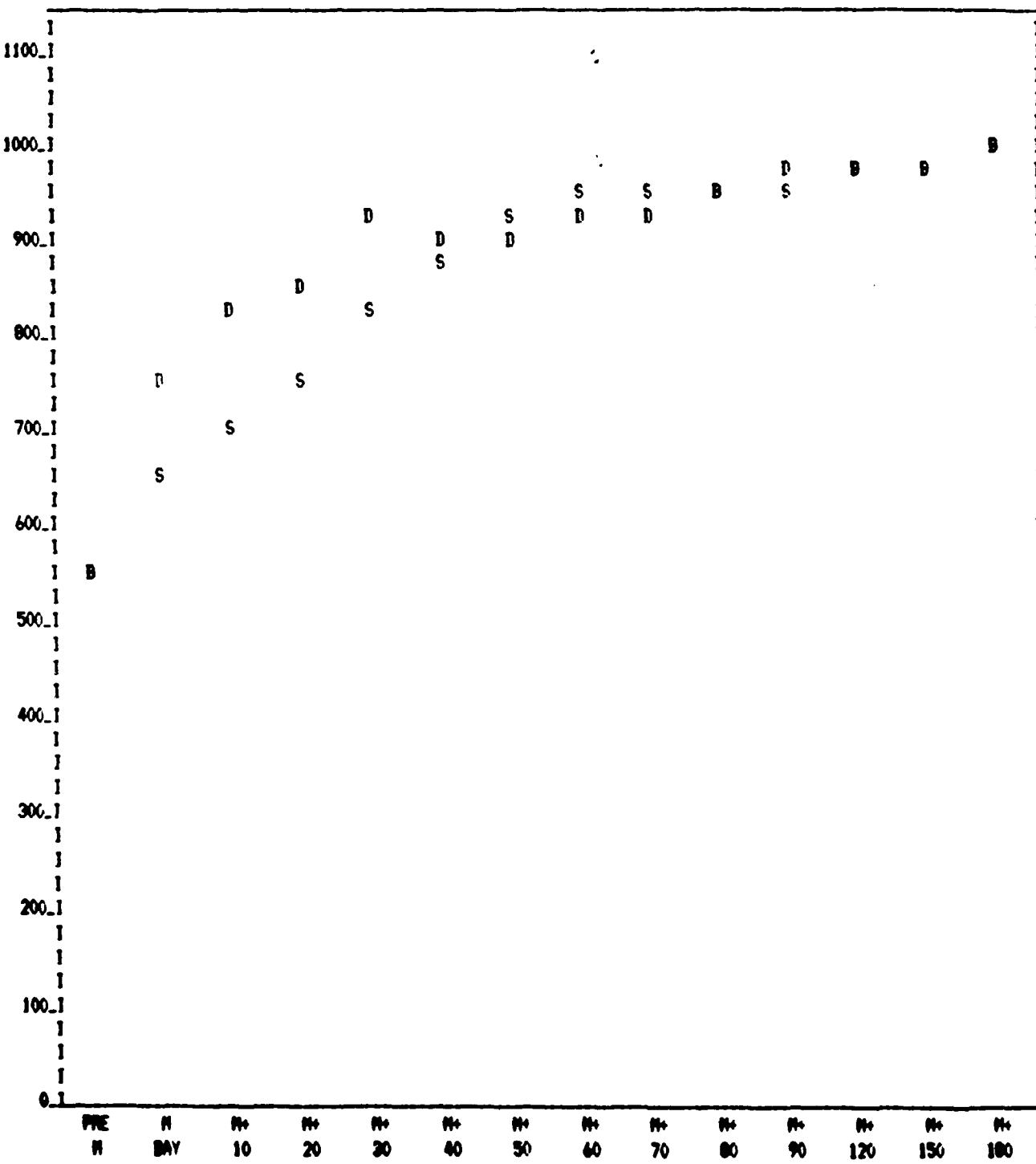
12/11/81 FY87 OWNERS OFFICERS/ENLISTED NAVY WORLD-WIDE REQ'TS

74

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

MANPOWER
(THOUS)



12/11/81 FY87CPWREQ OFFICERS

WORLD-WIDE RED'NTS

75

• CUMULATIVE-SUPPLY •

12/11/81 FY87CPAMREQ OFFICERS

NAVY WORLD-WIDE REQ'MENTS

• CUMULATIVE DEMAND •

12/11/01

PERIODICALS

OFFICERS

NAVY WORLD-WIDE REPRINTS

76

• CUMULATIVE-SUMMARY •

12/11/81

FY87CPWREQ

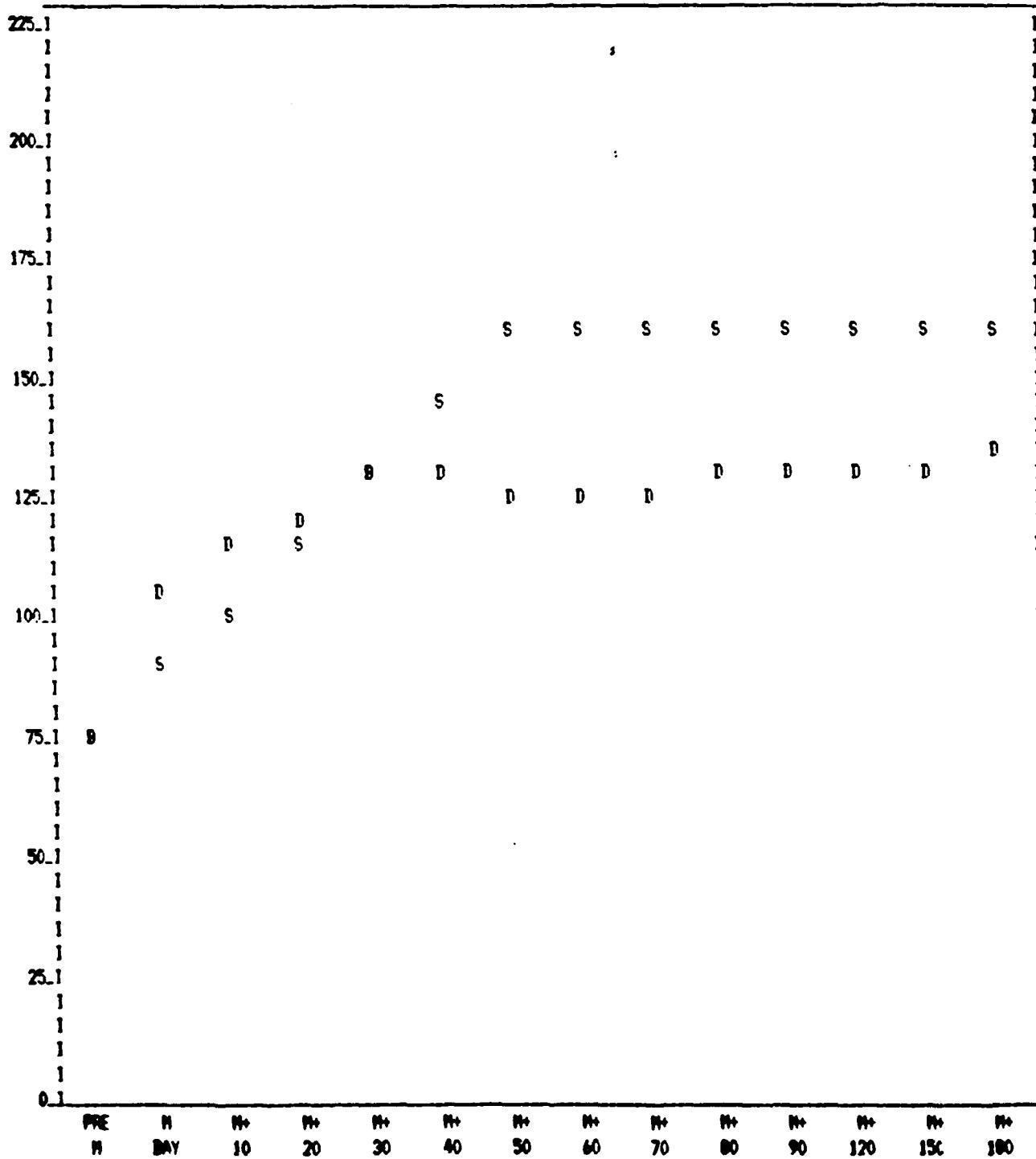
OFFICERS

NAVY WORLD-WIDE REQUISITES

77

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

12/11/81

FY87OPNREQ

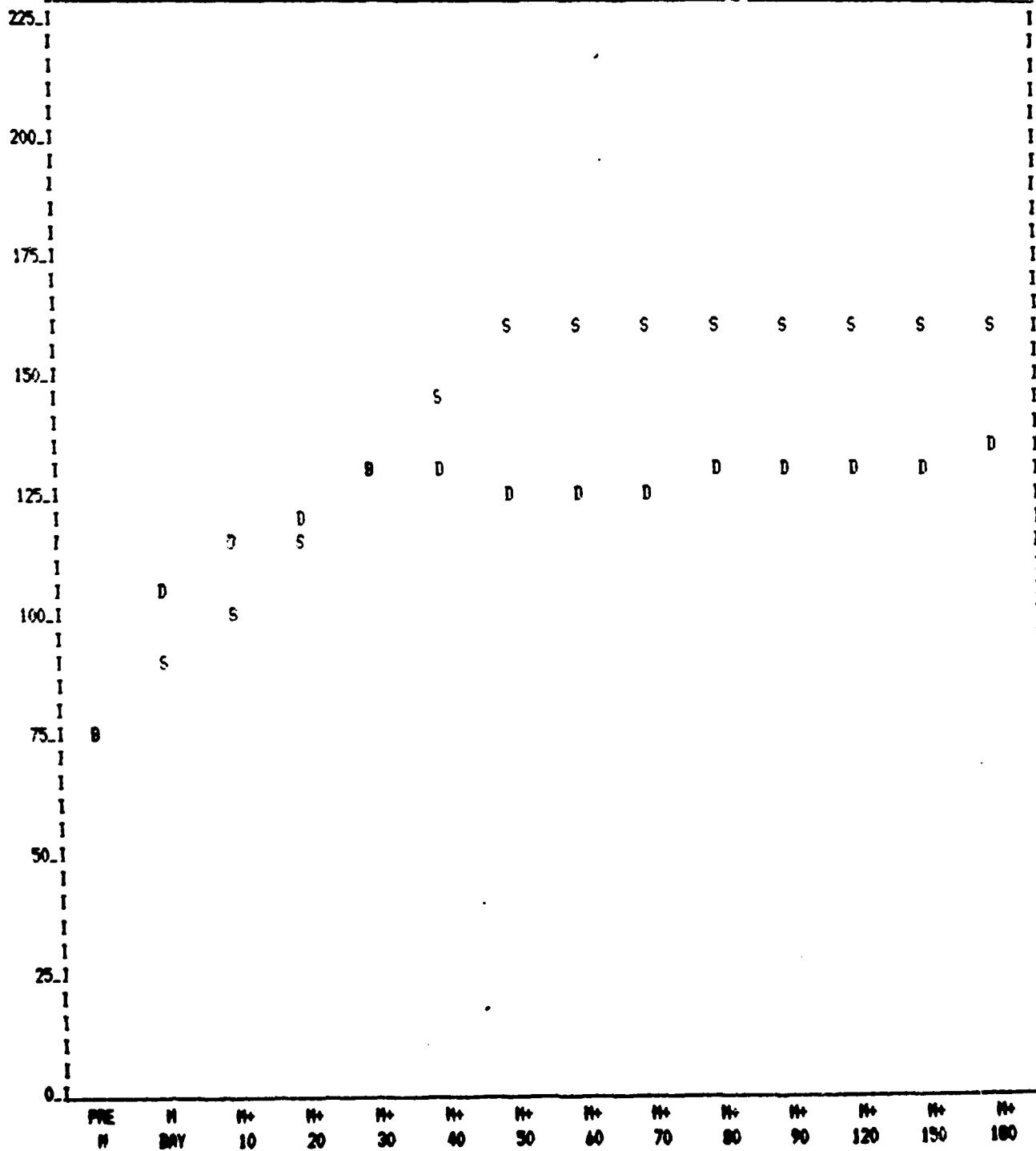
OFFICERS

NAVY WORLD-WIDE REQUIREMENTS

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

78

MANPOWER
(THOUS)

12/11/81 FY87CPMREQ OFFICERS

NAVY WORLD-WIDE REQ'MNTS

79

* CUMULATIVE-SUPPLY *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL 75200 93800 101900 115800 130800 145800 163100 163100 163100 163100 163100 163100 163100 163100 163100

TRAINED 75200 93800 101900 115800 130800 145800 163100 163100 163100 163100 163100 163100 163100 163100 163100

INITIAL AF 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200 75200

SELECT RES 0 18200 18200 18200 18200 18200 18200 18200 18200 18200 18200 18200 18200 18200 18200

OTH'R INACT 0 400 8500 22400 37400 52400 69700 69700 69700 69700 69700 69700 69700 69700 69700

TRAIN OUTP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

12/11/81 FY87CPMREQ OFFICERS

NAVY WORLD-WIDE REQ'MNTS

* CUMULATIVE-DEMAND *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL 76551 107148 115562 120006 133536 130243 125572 128405 129542 130312 133854 133547 134763 136869

TRAINED 76551 107148 115562 120006 133536 130243 125572 128405 129542 130312 133854 133547 134763 136869

STRUCTURE 62651 87302 92074 95166 109241 114507 108970 111001 110940 111057 113853 112771 113403 114736

NON-STRUCT 13900 19100 22300 22700 21000 11230 10730 10640 10740 10640 10750 10773 10933 11010

CAS-REPLS 0 746 1188 2140 3295 4506 5872 6764 7862 8615 9251 10003 10427 11123

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

12/11/81

FY1870PANRE0

OFFICERS

Many World-wide Requirements

80

• CUMULATIVE-SUMMARY •

PRE-11 11 11+10 11+20 11+30 11+40 11+50 11+60 11+70 11+80 11+90 11+120 11+150 11+180

SUPPLY 75200 93800 101900 115800 130800 145800 163100 163100 163100 163100 163100 163100 163100 163100

TRAINED 75200 93800 101900 115800 130800 145800 163100 163100 163100 163100 163100 163100 163100 163100

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

DEMAND 76551 107148 115562 120006 133536 130243 125572 120903 129542 130312 133854 133547 134763 136869

TRAINED 76551 107148 115562 120006 133536 130243 125572 128405 129542 130312 133854 133547 134763 136869

TRAINEE 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TOTAL -1351 -13348 -13662 -4206 -2736 15557 37528 34571 33558 32788 29246 29553 28337 26231

TRAINED -1351 -13348 -13662 -4206 -2736 15557 37528 34695 33558 32788 29246 29503 28337 26231

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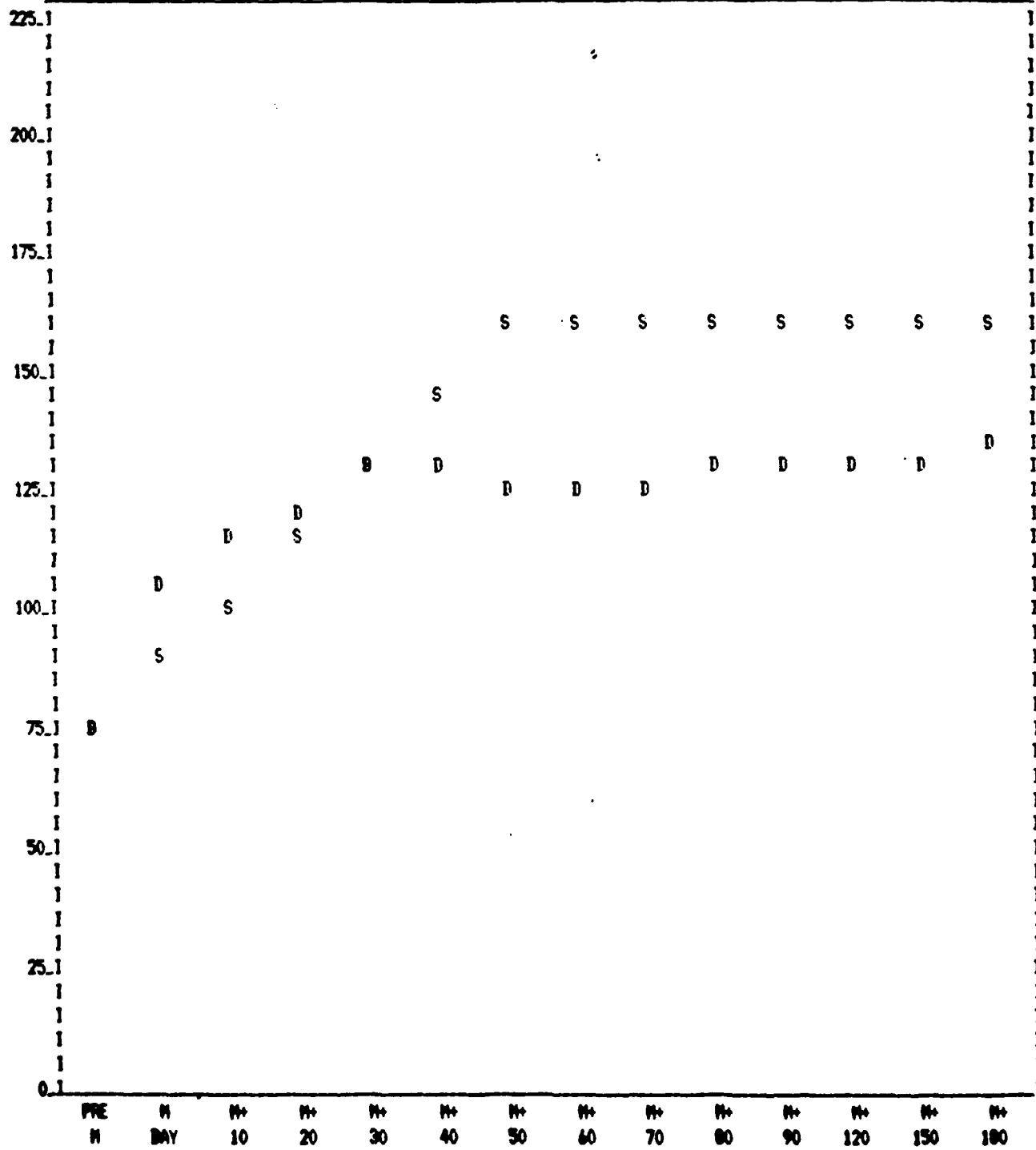
OFFICERS

NAVY WORLD-WIDE REPVNTS

81

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

12/11/81

FEDERATED

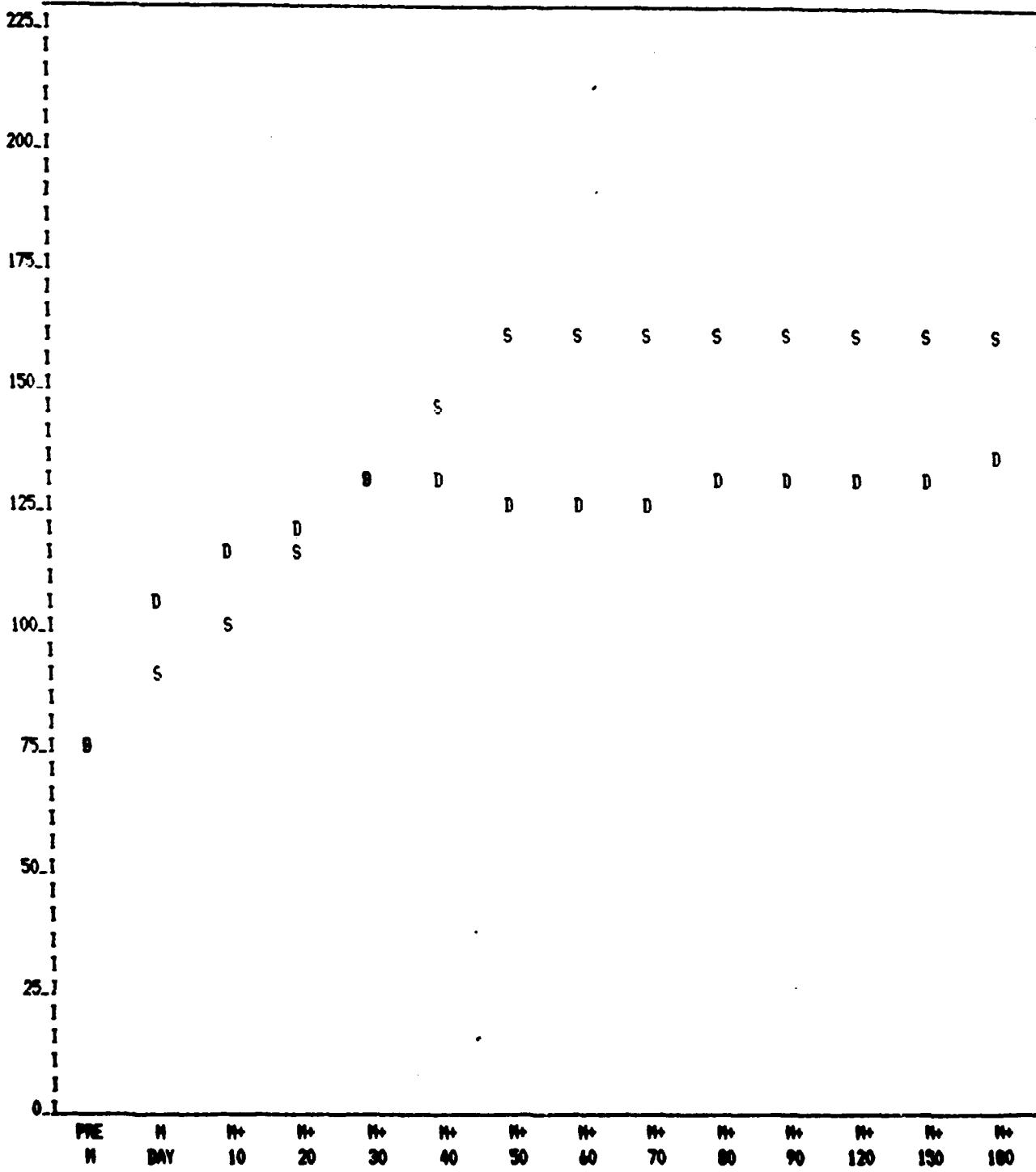
OFFICERS

NAVY WORLD-WIDE REQ'NTS

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

82

MANPOWER
(THOUS)

12/11/81 FY87CPANREQ ENLISTED

NAVY WORLD-WIDE REQ'MNTS

83

* CUMULATIVE-SUPPLY *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	542100	619800	651400	700500	751400	799400	833600	837200	840800	848000	851600	868400	879933	892367
TRAINED	492800	567700	598900	649200	700600	751700	784700	787800	790900	797000	802100	818900	830367	843267
INITIAL AF	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800	492800
SELECT RES	0	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400	74400
OTHR INACT	0	500	25400	71500	116500	161500	188100	188100	188100	188100	188100	188100	188100	188100
TRAIN OUTP	0	0	6300	10500	16900	23000	29400	32500	35600	41700	46900	63600	75067	87967
TRAINEE	49300	52100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/11/81 FY87CPANREQ ENLISTED

NAVY WORLD-WIDE REQ'MNTS

* CUMULATIVE-DEMAND *

PRE-M M M+10 M+20 M+30 M+40 M+50 M+60 M+70 M+80 M+90 M+120 M+150 M+180

TOTAL	537348	708623	770323	803384	847739	821205	834679	856542	861851	871759	901457	902815	910314	924335
TRAINED	499049	658523	717923	752084	796939	773505	785779	807142	811951	820759	851957	853315	860747	875235
STRUCTURE	439348	595090	651721	679172	711611	709779	711701	722310	718542	720930	734220	730778	736193	746427
NON-STRUCT	48700	58200	57900	55500	57100	24800	24200	27100	25500	25500	37900	37800	37500	36900
CAS-REPLS	0	5233	8202	17412	28228	38926	49878	57732	67909	74329	79837	84737	87054	91908
TRAINEE	49300	50100	52500	51300	50800	47700	48900	49400	49900	51000	49500	49500	49567	49100

12/11/81 FY87CPAVERD BULISTED

NEW WORLD-WIDE REPRINTS

84

• CUMULATIVE-SUMMARY •

PRE-11 11 11+10 11+20 11+30 11+40 11+50 11+60 11+70 11+80 11+90 11+120 11+150 11+180

12/11/81

FY87DRAFTED

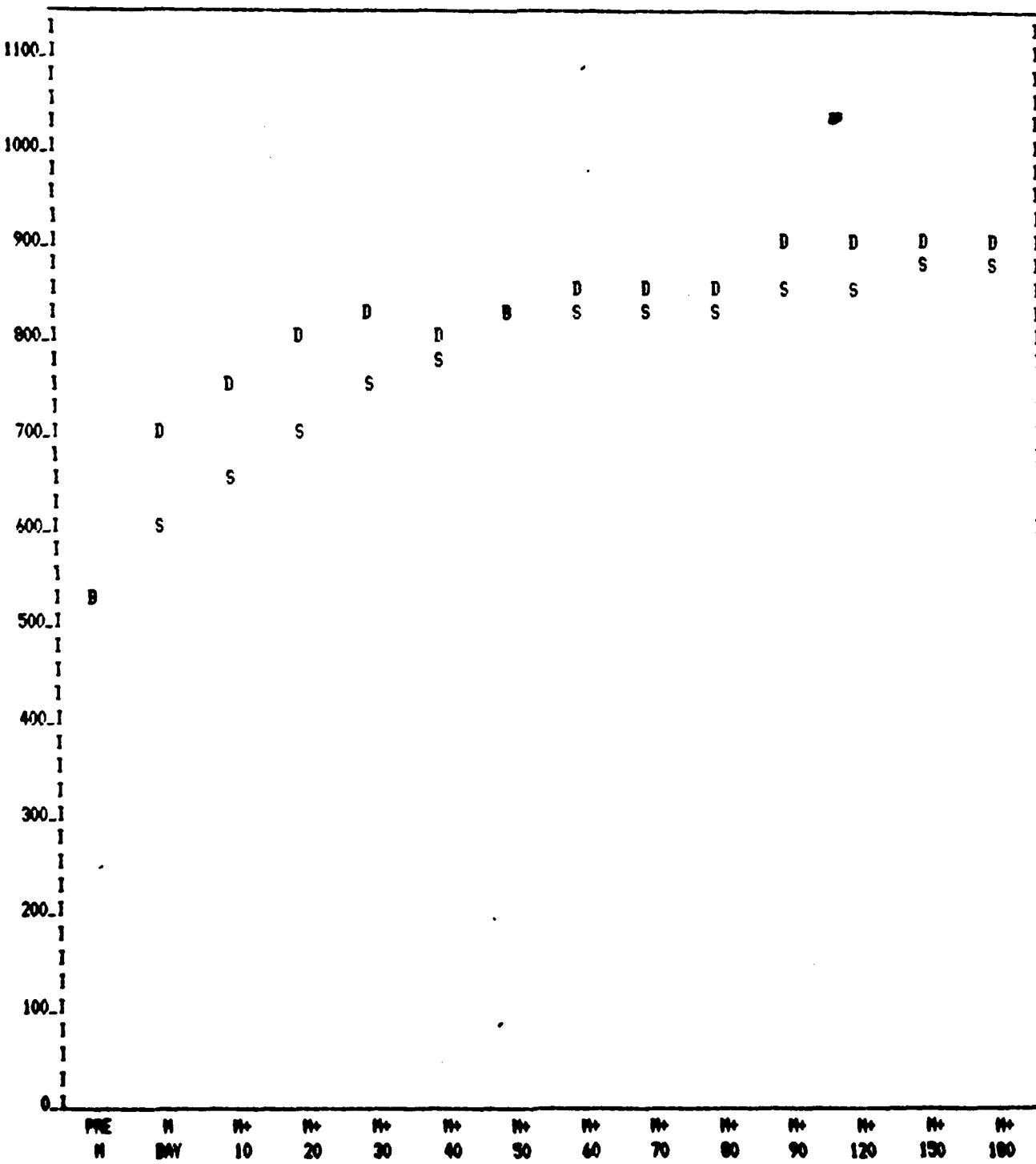
ENLISTED

NAVY WORLD-WIDE REQ'DNTS

85

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TOTAL

MANPOWER
(THOUS)

12/11/81 FY87DRAFTED ENLISTED

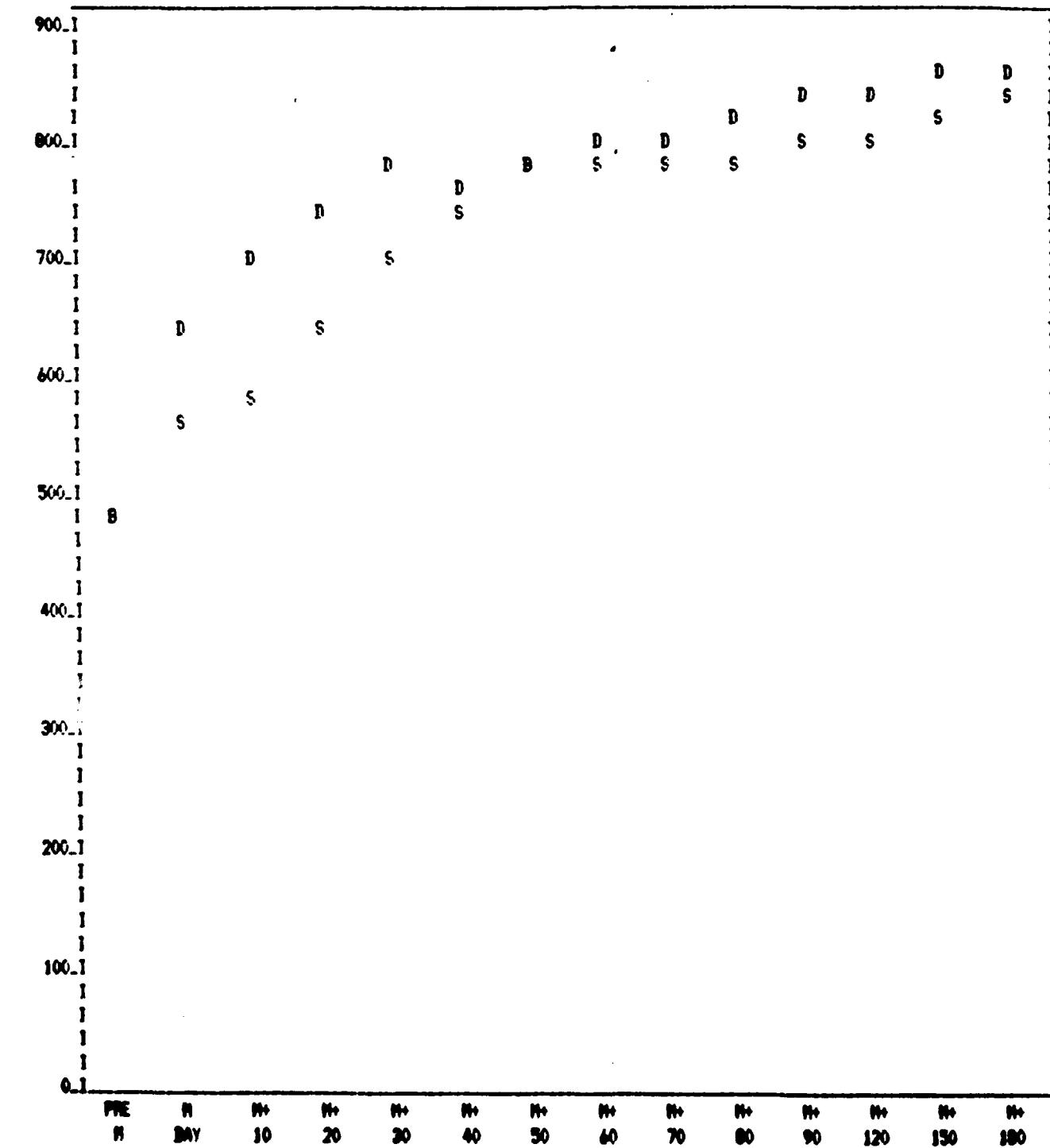
NAVY WORLD-WIDE REPORTS

86

CUMULATIVE DEMAND AND SUPPLY COMPARISONS

TRAINED

HWWPOWER
(THOUS)



III.12 February 16, 1982

SUBJECT: Transition to a Full Mobilization

Enclosures: (1) Operational or Functional Categories

- (2) Manpower Changes
- (3) Summary Line Comparison
- (4) Percent Change by Category
- (5) Examples and Amplifications
- (6) Selected Reserve Billets

Extracts: Enclosures (2), (3) and (4) are reproduced in the
following six pages.

ENCLOSURE (2)

REPRESENTATIVE MANPOWER CHANGES BY
OPERATIONAL/FUNCTIONAL CATEGORY
(000's)

<u>Category</u>	<u>M-Day</u>	<u>M+1 to 10</u>	<u>M+11 to 20</u>	<u>M+21 to 30</u>
<u>Structure</u>				
Afloat Forces	21.4	0.3	2.3	0.4
New Construction	0.2	0.0	0.0	0.2
MSC	1.8	10.2	0.0	0.0
Service Craft	0.0	6.9	0.0	6.9
Afloat Support	0.7	0.9	2.8	0.0
Repair - Recrew	0.0	0.0	2.3	2.3
Misc. Afloat	3.5	3.3	0.0	0.0
Afloat with USMC	0.6	2.3	6.3	-7.9
 TOTAL AFLOAT WORLDWIDE	 28.2	 23.9	 13.7	 1.9
Ashore with USMC (Mobile)	8.8	1.4	-6.3	2.6
Construction Forces (Mobile)	12.6	1.0	1.4	0.8
VP	2.4	3.3	0.0	0.0
ABFC's (Minus Construction and USMC)	3.0	1.4	0.0	0.0
Other Deployable	1.7	0.7	0.0	0.0
 TOTAL MOBILE/ DEPLOYABLE ASHORE	 28.5	 7.8	 -4.9	 3.4

<u>Category</u>	<u>M-Day</u>	<u>M+1 to 10</u>	<u>M+11 to 20</u>	<u>M+21 to 30</u>
Ashore Fixed (-additional medical workload)	25.8	0.0	15.1	66.6
Additional Medical Workload (Nurses)	0.0	2.2	4.3	1.6
TOTAL FIXED	25.8	2.2	19.4	68.2
TOTAL ASHORE	54.3	10.0	14.5	71.6
TOTAL STRUCTURE	82.5	33.9	28.2	73.5
			<u>218.1</u>	
Non-Structure				
Transients	12.9	0.6	1.0	6.4
Students	0.0	2.9	0.0	-3.9
Holdees	0.0	-1.3	-1.0	-2.0
Casualty Replacements	5.9	3.6	11.2	14.4
Trainees	0.9	0.4	-1.2	-0.5
TOTAL NON-STRUCTURE	19.7	6.2	8.0	14.4
			<u>48.3</u>	
STRUCTURE PLUS NON-STRUCTURE GRAND TOTAL	102.4	36.8	36.2	87.9
			<u>266.4</u>	
Less Billet Losses	0.0	0.0	-3.0	-5.1
Less Reduced Billets	-2.9	0.0	0.0	-0.5
Less Disestablished Activities	-2.9	0.0	0.0	-0.5

In order of decreasing magnitude the categories and the manpower changes, in thousands, between peacetime and M+30 days are:

Ashore Fixed	115.4
Casualty Replacements vs. Peacetime Patient Account	34.2
Afloat Forces (combat and direct support)	24.4
Transients	18.9
Construction Forces	15.8
Service Craft	13.9
MSC	11.8
Repair - Recrew	7.0
Miscellaneous Afloat	6.8
Ashore with USMC (mobile)	6.5
VP	5.6
Afloat Support	4.4
ABFC's	4.3
Other Deployable Ashore	2.4
Afloat with US	1.3
New Construction (ships)	0.4
Trainees	-0.4
Students	-3.5
Holdees	-4.3

ENCLOSURE (3)

COMPARISON OF SUMMARY LINES FROM ENCLOSURE (2)
AND FROM CPAM FY1984-1988 BASE CASE

The representative case used in enclosure (2) was chosen as the latest available data which has been constructed from the individend unit and detachment level of manpower detail. The data presented in the CPAM FY1984-1988 Base Case was derived from the same analysis. However, it was modified to reflect the manpower change decisions made during the POM process and the further manpower changes made during the Program Decision phase leading to the proposed FY1983 budget. Detailed differences are beyond the scope of this paper.

Structure Billets (000's) Augmentations

	<u>Representative Case</u>	<u>CPAM Base Case</u>
M-Day	82.5	106.0
M+1 to 10	30.6	25.7
M+11 to 20	28.2	23.6
M+21 to 30	73.5	62.7
TOTAL STRUCTURE	214.8	218.0
TOTAL NON-STRUCTURE	48.3	52.5
GRAND TOTAL	263.1	270.5

AD-A130 148 ANALYSES OF MOBILIZATION MANPOWER SUPPLY AND DEMAND(U)
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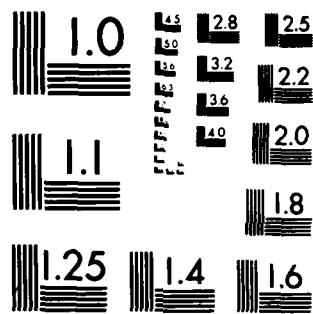
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ENCLOSURE (4)

REPRESENTATIVE MANPOWER CHANGES
IN THE PERIOD OF FYDP TO M+30 DAYS

The percentages given below are in relation to the FYDP manpower. Thus, if an activity had a manpower authorization of 100 in the FYDP and a demand for a total of 200 at M+30 days, the change would be 100%. Of the 100 additional billets in this example any or all of them could be wartime billets for peacetime inactive personnel including Selected Reserves.

Structure

Afloat Forces	10.3%
New Construction	33.6%
MSC	N.A. (from 0 manpower to 11,834)
Service Craft	167.4%
Afloat Support	281.5%
Repair-Recrew	N.A. (from 0 manpower to 6,959)
Miscellaneous Afloat	134.7%
Afloat with USMC	167.4%
<hr/>	
Total Afloat Worldwide	27.5%
Ashore with USMC	79.0%
Construction Forces	518.6%
VP	50.2%
ABFC's	N.A. (from 0 manpower to 4,332)
<hr/>	
Other Deployable	50.0%
<hr/>	
Total Mobile/Deployable	
Ashore Worldwide	127.0%
Ashore Fixed Worldwide	63.7%
Total Ashore Worldwide	72.0%
Total Structure Billets	47.6%
Worldwide	

Non-Structure

Transients	59.1%
Students	-13.5%
Holdees	-81.2%
Casualty Replacements	3,844.6%
Trainees	-0.1%
Total Non-Structure	42.5%
GRAND TOTAL (Structure and Non-Structure)	46.6%